

AMERICAN SOCIETY OF CIVIL ENGINEERS
INSTITUTED 1852

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from Non-Residents of North America until the expiration of ninety (90) days from the date of this list.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	30 years	10 years*	5 years
Associate Member	Qualified to direct work	25 years	6 years*	1 year
Junior	Qualified for sub-professional work	18 years†	2 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

* Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

† Membership ceases at age of 32 unless transferred to higher grade.

The

APPENDIX DIVISION OF THE BOARD OF EDUCATION

LIST OF APPLICANTS

Names and Addresses of Applicants for Admission and for Transfer on this Preliminary List, Arranged Alphabetically.

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The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The numbers to the left of each record indicate the serial number of the applicant for the current year, and the district in which he resides.

The note in heavy type represents, in each case, the estimate of the Applicant of the time he has spent in Active Practice, Responsible Charge, and in Designing. These figures do not include the allowance of two years for graduation nor one-third of a year for each academic year successfully completed in an engineering college without graduation.

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- ABELL, HORACE AVERY**—1109 Culver Rd., Rochester, N. Y.—(Age 40. Born in Schenectady Co., N. Y.)—1902 to April 1904 (2 years) Draftsman, Publication Dept., Gen. Elec. Co., Schenectady, N. Y.: April 1904 to April 1917 with Schenectady Ry. Co., until May 1911 as Mech., Architectural and Eng. Draftsman, also Rodman, Chainman, (3) Instrumentman and Recorder; Head Draftsman and Chf. of field parties (about 2 years); after May 1911 Asst. Engr. M. of W., in charge of all field and office work, such as surveys, designing, plans, specifications, track construction, bridges, buildings and structures: 1911 (1 month) loaned to Newport News & Old Point Ry. & Light Co., Hampton, Va., to make survey of property and tracks; also installed an office system in Eng. Dept.: 1913 (intermittently, about 1 year) loaned to United Traction Co., Albany, N. Y., to make complete survey of all of Company's property and tracks, also revised and installed a new office system in Eng. Dept.: April to Sept. 1917 Acting Engr., Way and Structures (reporting to Chf. Engr. of all railway property in Rochester, Syracuse and Utica), and Sept. 1917 to date Engr., Way and Structures, New York State Rys., Rochester, Executive Head and Engr. in charge of 253 miles of track, right of way, property, bridges, 260 buildings and structures; work includes maintenance, repairs, new construction, tools, machinery, yards, designs, plans, specifications and agreements. (Active practice 21.4 years: Sub-Prof. work 7.1: Prof. work 14.3: Res. Ch. 14.3: Design 19.4). Refers to W. W. Chadsey, E. A. Fisher, F. W. Fisher, C. A. Poole, J. F. Skinner.

ACKERMAN, BENNET HUBERT—620 Highland Ave., Newark, N. J.—(Age 39. Born Summit Hill, Pa.)—Jan. 1905 to May 1906 drawing illustrations for textbook for Inter-
951 national Correspondence Schools of Scranton: May 1906 to Oct. 1909 detailing, checking and designing machine tools, power and mining controllers, Gen. Elec. Co., Schenectady, (1) N. Y.: Oct. 1909 to June 1917 detailing and checking structural steel for all kinds of steelwork, such as bridges, buildings and drawbridges, Wisconsin Bridge & Iron Co., Milwaukee, Wis.: June 1917 to 1918 Squad Boss, 1918 to 1921 Asst. Chf. Draftsman, and 1921 to date Chf. Draftsman, Structural Steel Dept., Submarine Boat Corporation, Newark, N. J. (Active practice 18.7 years: Res. Ch. 8.2: Design 1). Refers to M. A. Hammond, B. O. Hood, N. A. Melick, D. A. Sealey, F. I. Wheeler, Jr.

AGGIMAN, JACQUES NISSIM—Care, Standard Oil Co. of New York, Constantinople, Turkey—(Age 31. Born Monastrir, Jugoslavia.) (B. Sc. in Civ. Eng., McGill Univ., 1917)—
952 Feb. 1911 to Feb. 1915 Draftsman laying out construction details of Quebec Bridge, and summer 1915 Checker in shops manufacturing Quebec Bridge structural members, (1) St. Lawrence Bridge Co., Ltd., Montreal: summer 1916 designing new steel and reinforced concrete buildings for extension of pulp mill and power plant, St. Lawrence Pulp & Paper Co., Chandler, Que.: May 1917 to Feb. 1920 Chf. Engr. of Constr. and Operation, Ha! Ha! Bay Pulp & Paper Co., Port Alfred, Que., in charge of construction of plant, design and construction of breakwater at Ha! Ha! Bay, dams, powerhouse, etc.: April 1920 to date with Standard Oil Co. of New York, Levant Branch, until June 1921 as Supt. of Constr., on design and construction of oil plant at Bourgas, Bulgaria; since

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then Chf. Engr. in charge of construction and manufacturing in Near East Territory, designing and construction of oil plants, can factories, warehouses, piers, pipe-lines, etc.; also Examiner of Eng., Univ. of Cospoli; Technical Advisor to Allied Petroleum Comm. of Turkey, and Cons. Engr. for various industrial plants. (Active practice 10.3 years: Res. Ch. 6.3: Design 0.5). Refers to H. S. Ferguson, R. deL. French, H. M. MacKay, G. F. Porter, H. C. Willcox.

ARANIBAR, ERNEST—35 West 94th St., New York City.—(Age 23. Born Cochabamba, Bolivia.) (C. E., Rens. Pol. Inst., 1923.)—June to Aug. 1922 Inspector, New York 953 State Highway Comm.: June 1923 to date Asst. to Field Engr., The Foundation Co. (Active practice 0.5 year: Sub-Prof. work 0.2: Prof. work 0.3). Refers to E. R. Cary, (1) L. W. Clark, H. Englander, T. R. Lawson, W. P. Mason, P. C. Ricketts.

BENNET, HAROLD HOUSLEY—5084 Tennyson St., Denver, Colo.—(Age 27. Born Denver, Colo.) (B. S., Mass. Inst. Tech., 1920.)—May 1917 to Dec. 1918 Lieut., 341st Field 954 Artillery, 89th Div., Ft. Sill School of Fire; Instructor in Field Artillery; last 3 months Acting Battery Commander: Aug. 1920 Chf. of Party, oil shale land triangulation (11) survey, W. H. Knowlton, Denver, Colo.: Sept. to Dec. 1920 Asst. Chf. of Party, preliminary canal location, Casper Canal, for State Engr. of Wyoming; alternately in charge of transit and level parties, and in responsible charge during his absence; assisted on maps, preliminary design and cost estimate: March 1921 to April 1922 Draftsman and Designer, U. S. Reclamation Service, North Platte Project, on design of minor irrigation structures, reinforced concrete, checks, drops, chutes, syphons, waste-ways, etc., and timber bridges: Aug. 1922 to March 1923 Draftsman and Designer, Colorado State Highway Dept., Bridge Dept., on design of reinforced concrete culverts and slab bridges, etc., also timber; Draftsman on standard drawings: March to Sept. 1923 Draftsman and Designer, Mountain States Telephone & Telegraph Co., Bldg. Dept., on design and remodeling of exchanges, beam, column, footing, etc., design; check of main building for additional stories possible: Sept. 1923 to date Designer, Shankland, Ristine Co., Engrs., on structural design of high school. (Active practice 4.3 years: Res. Ch. 1.4: Design 1.8). Refers to H. S. Crocker, R. S. DuBois, W. C. Huntington, J. S. Means, N. W. Morgan, R. G. Shankland, C. M. Spofford.

BIRKENWALD, EMIL S—222 Taney St., Gary, Ind.—(Age 22. Born Milwaukee, Wis.) (B. S. in C. E., Univ. of Wis., 1922; S. M. in C. E., Mass. Inst. Tech., 1923.)—July 955 to Oct. 1921 Estimator, A. F. Wagner Architectural Iron Works, Milwaukee, Wis., with design of small garages, etc.: June to Sept. 1922 and July 1923 to date Draftsman,

(9) American Bridge Co., Gary (Ind.) Plant, detailing on office building work, beams, columns and girders: Sept. 1922 to June 1923 engineering graduate work, Massachusetts Inst. of Technology. (Active practice 1.2 years: Sub-Prof. work 0.4: Prof. work 0.8). Refers to H. K. Barrows, H. L. Bowman, D. W. Mead, C. M. Spofford, L. F. Van Hagan.

BROWN, FRANCIS LEICESTER—47 Van Siclen Ave., Brooklyn, N. Y.—(Age 21. Born Shortsville, N. Y.) (C. E., Rens. Pol. Inst., 1923.)—July to Aug. 1921 in charge of 956 transit party and Transitman, with Arthur Laffler, on layout of drainage ditch, estimate of cost, checking contractors: June 1923 to date Draftsman, Geo. A. Just & Co., on (1) structural steel details. (Active practice 0.3 year). Refers to E. R. Cary, L. W. Clark, T. R. Lawson, W. P. Mason, P. C. Ricketts.

CAGLE, CECIL COBB—4509 Wesley Street, Greenville, Tex.—(Age 21. Born Hardy, Tex.) —Student, Burleson Coll. (Junior college), Greenville, Tex. (1920, 1 year), and Rice 957 Inst., Houston, Tex. (Academic course, 1921, 1½ semesters): April 1921 to Jan. 1923 with A. D. Duck, Engr., Greenville, until Nov. 1921 as Rodman, Instrumentman, high-(15)way construction, inspection of materials for concrete bridge work, etc.; then Inspector and Instrumentman on street improvements, Greenville, also office work on earthwork computations, tracings, etc.: April to June 1923 Instrumentman on street improvement, Commerce, Tex.: June 1923 to date Inspector and Instrumentman on street improvements, Greenville, for A. D. Duck, field work, also office work on earthwork computations, profiles, tracings, etc. (Active practice 2 years: Sub-Prof. work 2). Refers to J. S. Barlow, G. R. Burtner, W. D. Dockery, A. D. Duck, J. D. Metcalfe, D. M. Wilson.

CARLSON, REUBEN THEODORE—407 Lafayette St., Jamestown, N. Y.—(Age 24. Born Jamestown, N. Y.) (C. E., Rens. Pol. Inst., 1923.)—Summer 1922 Inspector on theatre 958 erection, at Jamestown, for Guinnane & Ludwig, Contrs.: July 1923 to date on design

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and detailing of concrete structures, Corrugated Bar Co., Inc., Buffalo, N. Y. (Active 3) practice 0.2 year). Refers to E. R. Cary, L. W. Clark, T. R. Lawson, P. C. Ricketts, W. W. Rousseau, A. P. Skaer, W. S. Thomson, E. A. Toucedo.

CHUANG, PING CHUAN—500 West 122d St., New York City—(Age 23. Born Shanghai, China.) (C. E., Rens. Pol. Inst., 1923)—July to Aug. 1922 Draftsman, and June 1923 959 Detailer, The Foundation Co., New York City. (Active practice 0.3 year). Refers to (1) E. R. Cary, L. W. Clark, T. R. Lawson, W. P. Mason, P. C. Ricketts.

CLEVELAND, HARRY WHITEHILL—500 Ft. Washington Ave., New York City—(Age 39. Born Newburgh, N. Y.) (C. E., Pa. Mil. Coll., 1904)—1906 (6 months) Tracer, 960 mechanical and foundation drawings, National Tube Co., McKeesport, Pa.: 1906 to 1910 with Tennessee Coal, Iron & R. R. Co., Ensley, Ala., as Tracer and Detailer, mill and (1) blast furnace, mechanical and foundation drawings (1½ years), Asst. to Gen. Labor Foreman on construction, including handling of labor and materials (1 year); Report Clerk on construction, Chf. Engr.'s office, including inspection of work contracted for by local shops in that district (1 year): 1911 (6 months) with Pittsburgh Contr. Co., New York Aqueduct, in charge of concrete mixing and stone-crusher plant at Little Britain: 1911 to 1916 (5 years) manufacturing, not engineering: 1916 (1 year) Bridge Inspector on bridges in operation and under construction, also some pier work and trestle inspection, Central R. R. of New Jersey: 1917 (1 year) with Bethlehem Steel Co., Sparrows Point, Md., as Special Work Engr., Chf. Civ. Engr.'s office, on work consisting of special reports on construction, checking of field reports and force account statements, making sketches, distributing blue prints to inspectors and contractors and various other work: 1918 to date (6 years) Asst. Engr., Valuation Dept., New York Central R. R. Co., New York City, in charge of drilling operations for determination of subsidence under roadbed for Lines Buffalo and East, locating, laying out and general supervision of work for various drilling parties and plotting and computing of sections developed from these investigations. (Active practice 12.5 years: Sub-Prof. work 5.5: Prof. work 7: Res. Ch. 8.5). Refers to P. Aylett, A. W. Carpenter, H. A. Paine, H. L. Preston, F. R. Schmid, H. E. Van Ness, J. J. Yates.

CLIFFE, WALTER RALEIGH, Jr.—Gilboa, N. Y.—(Age 29. Born Philadelphia, Pa.)—June 1915 to April 1916 Foreman in charge of equipment of Keystone State Constr. 961 Co. of Philadelphia as it arrived from completed Hillview Reservoir at Yonkers, N. Y. (Marcus Hook, Pa.): April 1916 to May 1917 Asst. Supt., Walter R. Cliffe Co. of (3) Philadelphia, during construction of Bridge 83 for Pennsylvania R. R. at Reading, Pa. (1 year), and in charge of constructing 6 miles of railroad between Parkesburg and Coatesville, Pa., for P. R. R. (1 month): 1917 to 1919 with U. S. Army: May 1919 to Nov. 1921 Supt., Walter R. Cliffe Co. of Philadelphia, in charge of construction of 11 miles of railroad from Severn to A. V. Tower in Maryland on P., B. & W. Branch of P. R. R. (4 months), and of Montgomery Bridge over West Branch of Susquehanna River, also of laying sewerage systems in Williamsport, Pa. (2½ years): Dec. 1921 to March 1922 in charge of construction of sand- and gravel-washing plant at Pancoast, N. J., for Pancoast Sand & Gravel Co. of Philadelphia: April 1922 to date with Walter R. Cliffe Co. of Philadelphia, until Feb. 1923 in charge of four operations, Coatesville, Pa. (P. R. R.), Wilmington Marine Terminal, sewage and disposal systems for City of Woodbury, N. J., and small bridge at Elsmere, Del., for P. R. R.; since then in charge of all work sub-let to the Company by Hugh Nawn Co. on Gilboa Dam. (Active practice 6.3 years: Prof. work 6.3: Res. Ch. 6.3: Design 0.3). Refers to E. W. Clark, M. C. Krause, S. S. Neff, L. E. Robbe, E. B. Temple, C. H. Trask, W. S. Twining.

CONVERSE, FREDERICK JAMES—California Inst. of Technology, Pasadena, Cal.—(Age 32. Born Palmyra, N. Y.) (B. S. in M. E., Univ. of Rochester, 1914)—June to Sept. of 962 years 1911–1913 with New York State Engrs. as Boatman on Barge Canal construction, Instrumentman running center line, setting slope stakes, laying out bridge abutments (1) and constructing lock and power house, Inspector of wash walls, concrete placing and pile driving, and Computer on final estimate: Aug. 1914 to May 1915 Asst. in charge of field work of inventory and appraisal of substation equipment, Cleveland (Ohio) Elec. Illuminating Co.: May 1915 to Oct. 1916 Student Engr., Gen. Elec. Co., Lynn, Mass., testing and repair of electrical apparatus, machine shop work and drafting: Oct. 1916 to Feb. 1918 Instructor in Applied Mechanics, Univ. of Rochester: Feb. to Aug. 1918 in charge of tests in mechanical laboratory of Gen. Laboratories, Bureau of Air-

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craft Production, Pittsburgh, Pa., for U. S. Army; tested materials, designed special equipment and testing machines: Aug. to Nov. 1918 Student Officer, Engr. Officers' Training Camp, Camp A. A. Humphreys, Va.: Dec. 1918 to Oct. 1919 Asst. in charge of design and production of large gears, Gleason Gear Works, Rochester, N. Y., routed work through shop, responsible for production and delivery, etc., and special work: Dec. 1919 to Oct. 1920 and June to Sept. 1922 Draftsman, Bureau of Power and Light, Los Angeles City, Asst. responsible for design of substations, purchase of material, and inspection of construction: Oct. 1920 to date Instructor in Civ. Eng., California Inst. of Technology, Pasadena, Cal. (Active practice 8.8 years: Res. Ch. 2.3: Design 1.2). Refers to A. R. Arledge, R. R. Martel, W. W. Michael, B. Noice, F. Thomas.

COWLISHAW, IRVINE MILLS—Brisbane, Queensland, Australia—(Age 31. Born Galway, Ireland.) (B. E., National, late Royal, Univ. of Ireland, 1913.)—June 1913 to Feb. 1915 963 Jun. Asst. Engr. to Sir Robert Elliott Cooper, on railway work, design and checking design of bridges, layouts and station buildings; part of time Asst. to Res. Engr.: May (1) to Dec. 1915 Eng. Designer and Draftsman, State Public Works Dept., Melbourne, Victoria, mainly on harbor works, design of wharves and piers (timber and reinforced concrete); also superintending repairs on jetties: Dec. 1915 to Sept. 1916 Eng. Designer and Draftsman, Melbourne Harbor Trust Commrs., on design of timber and concrete wharves, steel sheds, cargo-unloading appliances, including coal-handling plant, part of time also on supervision of these works: July 1919 to April 1920 on same work, became leading Designer and later Acting Chf. Draftsman: Sept. 1916 to June 1919 Lieut., Australian Imperial Force, in France with Engr. and Pioneer Units: April 1920 to April 1923 Asst. Engr. to Govt. of Tasmania, Hydro-Elec. Dept., on design and construction of power house (67 000 h. p.), outdoor substations at Waddamana and Risdon, transmission line (88 000 v.), Hobart-Launceston (121 miles), in complete charge of transmission line design and construction: April 1923 to date Dist. Engr., Commonwealth Lighthouse Service, in charge of all lighthouses off coast of Queensland (1 400 miles of coast line), maintenance of old and construction of new lighthouses. (Active practice 9.7 years: Res. Ch. 2.5: Design 3.7). Refers to H. E. Bellamy, J. H. Butters, C. C. Halkyard, W. E. MacLean, W. H. R. Nimmo, J. F. Ramsbotham.

CROSIER, CHARLES LEAVETT—507 Westinghouse Bldg., Pittsburgh, Pa.—(Age 28. Born Hadley, Mass.) (S. B., Mass. Inst. Tech., 1916.)—July 1916 to June 1917 Asst., Dept. 964 of Civ. and San. Eng., Massachusetts Inst. of Technology: June 1917 to date with Morris Knowles, Inc., as follows: June 1917 to Sept. 1921 Jun. Asst. Engr. on field (6) investigations, office studies, preliminary plans and reports on sewerage and sewage disposal for four communities and water supply and purification for sixteen municipalities and private companies; Sept. 1921 to July 1922 Asst. Engr., investigation, design and supervision of construction of water-supply works, complete supply system: July to Nov. 1922 in charge of design and construction of miscellaneous improvements and of operation of water-works in town of 5 000; Nov. 1922 to date Senior Asst. Engr., reports on and designs of sewerage systems and sewage-disposal works (estimated at \$800 000), investigation, design and supervision of construction of miscellaneous water-supply improvements. (Active practice 7.1 years: Res. Ch. 2.2: Design 1). Refers to A. B. Hargis, N. B. Jacobs, M. Knowles, R. F. MacDowell, M. G. Mansfield, M. R. Scharff, A. D. Weston.

DITTMAR, ALBERT LOUIS—29 Queen St., Wellsboro, Pa.—(Age 28. Born Elmira, N. Y.) (C. E., Cornell Univ., 1919.)—June to Sept. of years 1916 and 1917 Instrumentman, 965 City Highway Dept., Williamsport, Pa.: June to July 1918 Rodman with Constr. Quartermaster, U. S. Army: March to June 1919 student in engineering-graduate work, Cornell (4) Univ.: Oct. 1919 to date with Pennsylvania State Highway Dept. as follows: Oct. 1919 to Jan. 1920 Asst. Inspector on construction of reinforced concrete highway; Jan. 1920 to Jan. 1921 Inspector on construction of reinforced concrete highway and had full charge of inspection work; 5 months Draftsman in district office; Jan. to Feb. 1921 Chf. of Party on surveys for proposed improved highways, had charge of two Surveying Corps; Feb. 1921 to April 1923 Chf. Draftsman in complete charge of plans for four counties, both construction and maintenance, also in direct charge of making final estimates for completed contracts; April to July 1923 Asst. Engr., supervised construction, maintenance, corps work, and indirectly the drafting of plans for highway work in Dist. No. 10 (4 counties); since July 1923 Asst. Dist. Engr. on construction and

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maintenance of highway work in four counties. (Active practice 4.1 years: Sub-Prof. work 1.2; Prof. work 2.9; Res. Ch. 2.7; Design 2.7). Refers to F. A. Barnes, A. E. Farrington, T. C. Frame, E. E. Haskell, J. E. Perry, J. S. Ritchey, P. M. Tebbs.

DOWNEY, JAMES FRANCIS, Jr.—202 Burke Bldg., Seattle, Wash.—(Age 26. Born Boston, Mass.) (S. B., Mass. Inst. Tech., 1922)—Dec. 1917 to Dec. 1918 2d Lieut., U. S. Army 966 Air Service; Graduate, U. S. S. of M. A., Princeton, N. J.; Gunnery School for Airplane Combat, Wilbur Wright Field, Dayton, Ohio; assigned by War Dept. to Pursuit (12) Pilot, Army Air Service: May—June 1922 Jun. Highway Engr., Div. of Highways, Illinois: July 1922 to date Jun. Engr., U. S. Coast and Geodetic Survey, in charge of field party in tidal and current survey of New York Harbor (July to Sept. 1922); March 1923 commissioned Aid, hydrographic survey work in trip from Norfolk, Va., to San Diego, Cal.; on triangulation, topography and hydrography in Cook Inlet, Alaska; in charge of topographic survey party in Kachemak Bay, Alaska. (Active practice 2.4 years: Res. Ch. 1.3). Refers to C. L. Garner, H. W. Hemple, H. A. Seran, C. M. Spofford, P. C. Whitney.

ELLIOTT, EARL CONARROE—City Hall, Wichita, Kans.—(Age 45. Born Kokomo, Ind.)—Sept. 1896 to June 1898 student, DePauw Univ., Green Castle, Ind.: Aug. 1905 to Aug. 967 1916 with Kokomo (Ind.) Water Works Co., until Jan. 1913 as Cashier in charge of office, then Supt. and Vice-Pres. in charge of operation and extension of the plant; (14) also looked after Company's interests before the P. N. C. of Ind.: June 1913 to Aug. 1916 also Pres., Mt. Vernon (Ind.) Water Co., and Mt. Vernon (Ind.) Light & Power Co., work being supervisory; also did work for these companies before P. N. C. of Ind.: July 1913 to Aug. 1916 also Secy., Muncie (Ind.) Water Co., work supervisory and some work before P. N. C. of Ind.: Aug. 1916 to June 1921 Supt. and Vice-Pres., Wichita (Kans.) Water Co., had complete charge of operation, extensions and betterments: June 1921 to date City Mgr. of Wichita, Kans., has charge of all affairs of city, supervises all construction and responsible for all work. (Active practice 18.1 years: Prof. work 18.1; Res. Ch. 18.1). Refers to L. R. Ash, F. R. Berry, G. W. Biggs, Jr., E. B. Black, P. L. Brockway, N. T. Veatch, Jr.

FISHER, EVAN THOMAS—100 Twenty-Fifth Ave., San Francisco, Cal.—(Age 26. Born Redlands, Cal.) (C. E., Princeton Univ., 1921.)—March to Aug. 1919 Chainman, June 968 to Aug. 1920 studying comparison of stream flow and endeavoring to devise system by which flow at any point could be discovered by records of previous years, and July 1921 (13) to Jan. 1922 Instrumentman, 3 months in charge of party, all for Southern California Edison Co.: Jan. to May 1922 member of Western Eng. Co., Bakersfield, Cal., general engineering work: May 1922 to Feb. 1923 member of R. C. Worden Co.: contracting and engineering, redesigned and built \$20 000 school building in Bakersfield, Cal., had charge of construction (concrete and frame): March to April 1923 on graphical charts, C. B. DeMille Productions, Hollywood, Cal.: April 1923 to date in charge of preliminary surveys, San Francisco Memorial Bridge Corporation. (Active practice 2 years: Res. Ch. 0.2; Design 0.1). Refers to G. E. Beggs, W. A. Brackenridge, F. H. Constant, H. W. Dennis, F. A. Noetzli, D. H. Redinger.

GARRETT, ROY STUART—Care, State Highway Dept., Selma, Ala.—(Age 28. Born Montgomery, Ala.)—Sept. 1913 to June 1915 student, Univ. of Alabama: June to Sept. 1914 969 Transitman, Levelman and Office Asst. to James M. Garrett, C. E., Montgomery, Ala., on 50 miles of highway survey, Lowndes County, Ala.: June 1915 to Jan. 1916 Rodman, (10) Recorder, and in charge of topographical party on survey for U. S. Govt. on Coosa River, Ala.: Jan. to April 1916 Asst. Foreman for Abraham Bros., Contrs., Montgomery, on highway construction in Baldwin County, Ala.: April to Oct. 1916 Chf. Asst. to James M. Garrett, in charge of field party and office work, and Res. Engr. on 200 miles of highway in Baldwin County: Oct. 1916 to Jan. 1917 in office of U. S. Dist. Engr. at Montgomery, plotting surveys of Coosa River: Jan. to July 1917 Chf. Asst. to James M. Garrett on field surveys and plans for Alabama Federal Projects Nos. 1-8, 11 and 12 (120 miles of highway): July to Dec. 1917 in charge of field party under Superv. Engr. for Camp Sheridan, Ala., in charge of laying out and construction of many miles of drainage system and of construction of rifle range, etc., in erection of a divisional army camp: Dec. 1917 to Sept. 1919 with U. S. Army: Sept. 1919 to July 1922 with Garrett & Slack, Project Engrs., until April 1920 in charge of field party on Federal Aid road and bridge projects; since April 1920 Res. Engr., 9 months on \$200 000 railroad and highway bridge at Tallassee, Ala., in charge of bridge, installing a sanitary

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sewerage system in Town of Tallassee, and in charge of erection of reinforced concrete filter plant and concrete forebay and retaining walls; 1½ years on reinforced concrete bridge over Ocmulgee River, Hawkinsville, Ga., and reinforced concrete arch bridge over Chattahoochee River, at Columbus, Ga.: July 1922 to Jan. 1923 member of firm, James M. Garrett & Son, Engrs., Montgomery: Jan. to March 1923 in office of State Highway Dept. Div. No. 3, at Montgomery, on plans: March 1923 to date with State Highway Dept. of Georgia, in charge of location and field parties. (Active practice 7.3 years: Sub-Prof. work 3: Prof. work 4.3: Res. Ch. 4.3). Refers to J. M. Garrett, W. D. Hull, G. N. Mitcham, S. B. Slack, H. G. Smith.

GILBERT, JACK HITE—409 East Main St., Jackson, Tenn.—(Age 23. Born Louisville, Ky.) (B. S. in C. E., Ga. School Tech., 1922).—June to Sept. 1920 Draftsman, Harvey 970 Steel Products Corporation (now Southern Engine & Boiler Works), Jackson, Tenn.: June to Sept. of years 1921 and 1922 Asst. City Engr. of Jackson: Sept. 1922 to July (10) 1923 Draftsman, Bridge Dept., Chf. Engr.'s office, and Aug. 1923 Masonry Inspector, Louisville & Nashville R. R. Co., Louisville, Ky.: Aug. 1923 to date Office Engr., State Highway Dept., Jackson. (Active practice 1.2 years: Res. Ch. 0.6: Design 1.1). Refers to C. H. Blackman, H. G. Livesay, L. L. Morton, P. H. Norcross, J. M. Salmon, G. R. Smiley, E. Zarbell.

GLEDHILL, WILLIAM LAWRENCE—Box B, Gilboa, N. Y.—(Age 26. Born Durham, Pa.)—1915 to 1917 (2 years) Asst. to Div. Engr., Lehigh Valley R. R. Co.: 1917 to 1919 971 (2 years) with U. S. Navy on U. S. S. Ohio, and others: 1919 to 1922 (3 years) Constr. Mgr., Lehigh Valley Adv. Co., in charge of all construction: 1922 to 1923 (1 year) (3) with Dwight P. Robinson & Co., Inc., Brazil and United States, cost work and accounting; at present Inspecting Engr., Board of Water Supply, New York City, on construction of Gilboa Dam. (Active practice 8 years: Sub-Prof. work 2: Prof. work 6: Res. Ch. 3: Design 3). Refers to P. B. Easterbrooks, J. A. Guttridge, S. S. Neff, L. E. Robbe, W. T. Webb.

GOODELL, HORACE HOLBROOK—1622 S. Fifth St., Springfield, Ill.—(Age 26. Born Chandlerville, Ill.) (B. S., Coll. of Eng., Univ. of Ill., 1923).—1912 to 1914 (2 years) 972 Rodman and Chainman for his father on drainage, boundary and county highway surveys: June 1915 to Sept. 1916 Rodman, Chainman, Draftsman, Stenographer and Book- (8) keeper for Goodell & Millard, Beardstown, Ill.: June 1917 to May 1918 Instrumentman and Office Engr. with considerable amount of contract and specification writing, Allan D. Millard, Beardstown: May 1918 to Nov. 1919 Yeoman, 3d class, U. S. Naval Reserve Force: Nov. 1919 to June 1920 Shipfitter, 2d class, steel layout work and erection, Bethlehem Shipbuilding Corporation, Sparrows Point, Md.: June to Sept. 1920 Instrumentman, etc., for Goodell & Millard: vacations 1921 and 1922 in responsible charge of drainage and municipal surveys: June 1923 to date Asst. to Civ. Engr., Eng. Dept., Central Illinois Public Service Co., Springfield, Ill. (Active practice 5.2 years: Res. Ch. 1.6). Refers to H. E. Babbitt, P. Bayliss, H. Cross, A. N. Talbot, C. C. Wiley, C. C. Williams.

GORDON, FRED GUYON—1445 Monadnock Bldg., Chicago, Ill.—(Age 32. Born Ft. Collins, Colo.) (B. S., Univ. of Ill., 1912).—June 1912 to Nov. 1917 with Dabney H. Maury, 973 Cons. Engr., Chicago, Ill., until Oct. 1915 as Asst. Engr. on design of water-works structures for Streator (Ill.) Aqueduct Co., Anna State Hospital, Chicago Golf Club, (8) Galesburg, Moline, Riverside and Wheaton, all in Illinois, Sioux City, Dubuque and Knoxville, Iowa, and Sioux Falls, S. Dak.; design of sewerage system for Nokomis, Ill.; Res. Engr. on construction of pumping station buildings, elevated tanks, distribution systems, pumping equipment and reservoir at Riverside; Chicago Golf Club, Wheaton, Ill., and Sioux Falls, S. Dak.; appraisal of water-works or water-works and electric light properties at LeMars, Iowa, Cape Girardeau, Mo., Danville, Champaign, Urbana, and Lincoln, Ill.; after Oct. 1915 Prin. Asst. Engr. in charge of design of water-works structures for Aurora, Ill., Lansing, Mich., and La Porte, Ind., in charge of supervision of construction of reservoirs at Aurora and Lansing; reports on water-works at Elwood and Elgin, Ill., and on contemplated hydro-electric plant on Mississauga River, Ont., Canada; appraisal of Inter-State Water Co., Danville, Ill., and Streator Aqueduct Co.: Nov. 1917 to July 1918 Asst. Engr. to Advisory Engr. on water supply, Constr. Div., U. S. Army, on design of pumping stations, distribution systems and water supply for camps, cantonments, army bases, hospitals, etc.: Aug. to Dec. 1918 with U. S. Army: Feb. 1919 to March 1920 with Eng. Dept., Standard Oil Co. (Indiana), Whiting, Ind.

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on design of stills, still foundations, condenser boxes, pipe-lines, reinforced concrete buildings, tanks and machine shop layout: March 1920 to date Prin. Asst. Engr. with Dabney H. Maury, in charge of design of water-works structures for Sioux Falls, S. Dak., Alton (Ill.) Water Co., and Streator (Ill.) Aqueduct Co., and Dubuque, Iowa, in charge of supervision of construction of 8 000 000-gal. iron removal plant at Sioux Falls; appraisal of water-works, sewerage system and electric property at Elizabeth City, N. C., water and electric properties, Orlando and Sebring, Fla., water-works, Iron Mountain, Mich., Danville, Alton, and Streator, Ill.; preliminary reports on water-works projects. (Active practice 10.8 years: Res. Ch. 6.9: Design 4.2). Refers to C. Goldsmith, P. Hansen, L. R. Howson, D. H. Maury, W. G. Stromquist, A. N. Talbot, M. J. Trees.

GRODSKY, MORRIS—2915 Division St., Chicago, Ill.—(Age 32. Born Odessa, Russia.) (B. S. in Civ. Eng., 1915, and C. E., 1920, Armour Inst. Tech.)—June to Sept. of years 974 1913 and 1914 Asst. Engr. with architect and architectural engineer for Central Mfg. Dist., Chicago, Ill., and P. M. Leichenko, on structural plans for warehouses and other (8) industrial buildings: May-Dec. 1915 Draftsman with Allen & Garcia, Engrs., Chicago, on plans and designing of coal tipplers: Jan. 1916-Oct. 1918 with Concrete Steel Products Co. (later Tait Eng. Co.) as Designing Engr. of warehouses, slaughter houses, bridges, arches, and concrete ships, and after July 1918 Squad Boss in charge of designing and detailing squads on same kind of work: Oct. 1918-Jan. 1919 Air Service Radio Mechanic, U. S. Army: Feb. 1919 to May 1921 Engr. of concrete design, bridge Div., City of Chicago, in charge plans for Roosevelt Road Viaduct (cost \$5 000 000): June-Sept. 1921 and Oct. to Nov. 1921 (one-half of time) Designer, Foundation Co. of Chicago, designing power station for Kansas City Light & Power Co. (with two 35 000-h. p. units): Sept. 1921-June 1922 Instructor, and Sept. 1922-June 1923 Asst. Prof., Lewis Inst., teaching analytic mechanics and strength of materials, materials of construction, structural steel design and reinforced concrete construction: Dec. 1921 to May 1922 (one-half of time) in private practice as Cons. Structural Engr., Chicago, designed coal yards and various industrial and apartment buildings: June-Sept. 1922 and Oct. 1922-May 1923 (one-half of time) Designing Engr. in charge of all designing on buildings, warehouses, etc., Kalman Steel Co., and June 1923 to date Chf. Engr. of the company. (Active practice 9.5 years: Sub-Prof. work 0.9: Prof. work 8.6: Res. Ch. 7.4: Design 6.8). Refers to D. A. Abrams, H. M. Bringhurst, W. W. DeBerard, P. L. Hein, L. J. Hotchkiss, A. R. Lord, L. E. Philbrook, F. Rogers, I. F. Stern, B. E. Winslow.

HALTERMANN, HENRY LANGDON—60 Park St., Montclair, N. J.—(Age 24. Born Brooklyn, N. Y.) (B. S., Mass. Inst. Tech., 1923.)—Aug. to Dec. 1918 2d Lieut., Inf. 975 U. S. Army: Jan. to April 1923 Civ. Engr. with Sanderson & Porter on Racquette River survey, acted as Rodman, Transitman and worked up field notes: May 1923 to date (1) Engr. in charge of building lines and levels in construction of foundation and three floors of Atlanta-Biltmore Hotel, Atlanta, Ga., for Schuster Eng. Co., Atlanta. (Active practice 1 year: Res. Ch. 0.3). Refers to H. K. Barrows, C. Herschel, J. P. Hogan, J. A. Leonard, C. M. Spofford, R. N. Whitcomb.

HARPER, EARLE GENE—Office, Chf. of Air Service, U. S. Army, Washington, D. C.—(Age 33. Born Mechanicsburg, Ohio)—June 1908 to April 1909 chain, level, recording 976 and sounding work on diversion channel project, U. S. Engr. Dept., Puget Sound Dist.: May to Dec. 1909 rod, chain and instrument work, Pile Driver Inspector and Dredger (5) Inspector on construction of Tacoma Terminal, Rodman and Leveler, Chicago, Milwaukee & St. Paul Ry.: Jan. 1910 to July 1912 on engineering work for private concerns, farm subdivision, city lot surveys, irrigation and drainage and power line location: July 1912 to Aug. 1917 Rodman, Instrumentman, Asst. Res. Engr. and Supt. on reconnaissance, location, construction and maintenance of highways, California Highway Comm.: Aug. 1917 to date 1st Lieut. and Capt., Reserve Corps, and 1st Lieut., Regular Army; over 1 year during the war in command of 441st Aero Constr. Squadron. (Active practice 15.3 years: Sub-Prof. work 3.9: Prof. work 11.4: Res. Ch. 5.1). Refers to W. S. Caruthers, T. H. Dennis, A. B. Fletcher, J. H. Harvell, M. M. Patrick, T. E. Stanton, Jr., H. O. Tunis.

HEMMINGS, HARRY HOWARD—639 East Third St., Brooklyn, N. Y.—(Age 27. Born Fredericksburg, Va.) (C. E., Cornell Univ., 1917.)—June to Sept. of years 1914 and 977 1915 Asst. to Estimator, John Thatcher & Son, Bldg. Contrs., Brooklyn, N. Y.: Summer

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- 1916 and Oct. 1917 and April 1919 Transitman, with Vitale, Brinckerhoff & Geiffert, (1) New York City, in charge of field party on surveys, also mapping same, and later locating roads and other improvements for estates; May to Oct. 1917 Asst. Engr. in charge of office of O. P. Thomas, preliminary and detailed plans and estimates from field data for brick on concrete-base highways, water-shed areas, water-works, earth and timber dams, real-estate properties and design and detail of sidings, inclined planes, trestles and coal tipplers: Nov. 1917 to April 1919 with Curtiss Eng. Corporation, until March 1918 as Asst. Engr. on designs of airplanes, seaplanes and flying boats; then First Asst. Research Engr. in charge of design and supervision of detailing, construction and installation of special types of propellers and wind tunnels; development of mathematical and technical design notes; original research work, theoretical and constructional development of airfoils with supervision of construction and tests: July 1919 to March 1920 Aeronautic Engr., Navy Dept., Bureau of Constr. and Repair, Aircraft Div., in charge of engineering changes requiring design, suggestion, approval and authorization of all engineering changes on heavier and lighter than air craft; special investigations of various types of wing ribs, control surfaces, wing areas and motors for design notes; supervision of necessary drafting work: July 1920 to March 1921 Designing Draftsman with Geo. F. Hardy, Cons. Engr., on equipment and piping layouts for paper-mill plants; preliminary and final analyses and details for overflow and non-overflow dams, retaining walls, Tainter gates, vertical and sluice gates, concrete foundations, draft tubes and headworks: July to Dec. 1921 Sales Engr., Edwin Burhorn Co., with necessary designs, details and estimates for work on steel cooling towers, tanks, smoke stacks, breechings, etc., also some supervision of erection: Jan. 1922 to date Asst. Engr., Plan of New York and Its Environs, requiring comprehensive studies and original designs and suggestions on important city planning problems, such as zoning, population, railroad and highway traffic, recreation, water supply and sewerage, land valuation, elevated concrete driveways and port problems, H. M. Lewis, New York City. (**Active practice 5.6 years: Prof. work 5.6: Res. Ch. 4.8.**) Refers to F. A. Dale, A. F. Hartman, H. M. Lewis, N. P. Lewis, H. N. Ogden, S. Truscott, T. T. Whittier.

HENDREN, ROBERT FULTON—1529 West 104th St., Chicago, Ill.—(Age 23. Born Monroe, Mich.) (B. S. in C. E., Univ. of Kans., 1923.)—June 1923 to date Student Employee, 978 Chicago Bridge & Iron Works. (**Active practice 0.3 year.**) Refers to J. O. Jones, (8) W. C. McNow, D. W. Patton, H. A. Rice, C. C. Williams.

- HODGES, RICHARD McKANDLISH—Room 2700, Municipal Bldg., New York City—(Age 35. Born Norfolk, Va.) (B. S. in Civ. Eng., Cooper Union, 1921; C. E., Pol. Inst. of 979 Brooklyn, 1923.)—April 1913 to May 1914 Draftsman, New York Central R. R. Co., tracing, and some plotting and estimating: June 1914 to May 1915 Jun. Asst. or Jun. (1) Draftsman, Public Service Comm., Track Div., Eng. Dept., New York City, plotting and tracing, also computing track alignment, for subway construction: May to Oct. 1915 Draftsman, Frog and Switch Dept., Pennsylvania Steel Co., Harrisburg, Pa., on computations, layouts, and drawings: Oct. 1915 to Jan. 1916 Draftsman, U. S. Aluminum Co., Constr. Dept., Edgewater, N. J., revision of design drawings to meet conditions in field, design of hose houses and various details, including track connections and machinery installation: Jan. 1916 to Dec. 1917 and July 1919 to April 1920 Draftsman, Valuation Dept., N. Y. C. R. R., plotting, tracing, checking maps and profiles, investigating old deeds and surveys, etc.: Dec. 1917 to July 1919 with U. S. Army, Gas Defense Service, San. Corps and 32d Engrs., about 8 months on detached service at headquarters, Base Sec. No. 2, Bordeaux, designing and drafting, miscellaneous temporary structures and yard layouts: April 1920 to March 1921 Senior Draftsman, West Side Improvement, N. Y. C. R. R., on drawings, including walls, piers, sewers, etc., design of platform and various details around terminal, underpinning new apartment houses on Park Ave. over tracks, shock insulating columns: March 1921 to Aug. 1922 Topographical Draftsman, Grade C, New York City, Office of Pres., Borough of Queens, Long Island City, N. Y., on drawings for reinforced concrete trestle, special sewer structures, including design of reinforced concrete slabs, beams and columns: Aug. 1922 to date Structural Steel Draftsman, Grade C, New York City, Tunnel Div., Board of Estimate and Apportionment, design of various members and details of two steel shafts for shield-driven subaqueous tunnel, design and estimate of highway bridge, miscellaneous studies and drawings in connection with proposed trench tunnel construction. (**Active practice 10.3 years: Res. Ch. 1.5: Design 4.9.**) Refers to C. F. Gardner, H. P. Hammond, C. W. Hudson, F. T. Lawton, A. L. L. Martin, J. H. Serra.

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KLEMMT, MAYNARD OSWALD—942 Broad St., Newark, N. J.—(Age 37. Born Jersey City, N. J.)—May 1899 to May 1900 Draftsman with Henry A. Koelble, Archt., New York City: May 1900 to May 1905 Timekeeper (1 year), Clerk of Works (2 years), and Foreman of construction (2 years), E. M. Waldron & Co., Gen. Contrs., Newark, N. J.: May 1905 to May 1912 Estimator and Supt. (3 years) and Designer and Supt. (4 years), reinforced concrete construction, Chas. L. Pitts Co., Newark: May 1912 to May 1917 Bldg. Contr., reinforced concrete, Klemmt Koncrete Konstruction Co., Newark, designing and building for architects and owners: received license to practice architecture and engineering: May 1917 to May 1921 associated with Fred G. Nobbe, Newark, and (May 1919 to May 1920) Efficiency Inspector, Submarine Boat Corporation, Port Newark: May 1921 to date in private practice of architecture and engineering, at Newark, until Oct. 1923 associated with Neil J. Convery. (**Active practice 24.4 years: Sub-Prof. work 5: Prof. work 19.4: Res. Ch. 10: Design 16.4.**) Refers to A. H. Bromley, Jr., C. F. Dingman, W. A. Kinsey, N. A. Melick, M. N. Shoemaker, J. R. Van Duyne, C. A. Winston.

KRUMMEL, LOUIS WILLIAM—488 Nostrand Ave., Brooklyn, N. Y.—(Age 23. Born Chicago, Ill.)—4 years student, Polytechnic Inst. of Brooklyn: June to Oct. 1922 Jun. 981 Asst. Engr., New York State Highway Dept., Buffalo, on road construction: Oct. to Dec. 1922 Transitman, Chf. of Party, property development, concrete roads, Roger Black (1) Eng. Co., Inc., New York City: Dec. 1922 to Feb. 1923 Jun. Asst. Engr., Transit Comm., New York City, on subway construction: Feb. to Sept. 1923 Transitman, Chf. of Party, property development, concrete roads, Roger Black Co. (**Active practice 1.2 years: Sub-Prof. work 0.4: Prof. work 0.8: Res. Ch. 0.8.**) Refers to R. D. Black, H. R. Codwise, H. P. Hammond, J. E. Hasbrouck, E. J. Squire.

LANG, SHI KUIE—Ho Tsin, Shansi Province, China—(Age 38. Born Ho Tsin, China.) (C. E., Royal Tech. Coll., Glasgow, 1913.)—1913 to 1914 (1 year) in works at Glasgow 982 and London: 8 years, Prof. of Civ. Eng., Shansi Univ.: vacations on irrigation, construction and surveying in Shansi: Nov. 1919 to date also Chf. Engr. of Highway Bureau of (1) Shansi. (**Active practice 9 years: Res. Ch. 8.**) (Applies in accordance with Sec. 1, Art. 1, of the By-Laws.)

LA NOUE, WILLIAM EDWARD—612 Calcasieu Bldg., San Antonio, Tex.—(Age 41. Born New Orleans, La.)—June 1900 to Jan. 1902 Rodman on levee location, and Inspector 983 on levee construction, U. S. Engrs., New Orleans Dist.; Feb. 1902 to March 1903 Levelman and Computer, and Jan. 1909 to Feb. 1910 Prin. Asst. Engr., with J. F. (15) Coleman, Cons. Engr.: April 1903 to Dec. 1904 Transitman, and Inspector on repairs and extension of Sabine Pass and Calcasieu Pass Jetties, U. S. Engrs.: Jan. 1905 to Dec. 1908 Transitman (9 months), and Res. Engr. on construction (2½ years), New Orleans Great Northern R. R.: March 1910 to Sept. 1911 in private practice, irrigation, drainage and street construction: Nov. 1911 to April 1914 Asst. Engr. on construction, St. Louis, Brownsville & Mexico R. R.: May 1914 to Aug. 1916 Prin. Asst. Engr. to L. A. Gueringer, on hydrographic surveys and design of highways and drainage: Sept. 1916 to June 1922 City Engr. of Victoria, Tex., on design and construction of 4 miles asphalt pavement, 3 miles of storm and 2 miles of sanitary sewers, and 10 miles macadam street, and in charge of all other design, construction and maintenance: Jan. 1923 to date with Terrell Bartlett, Engr., on design of sewers and water supplies. (**Active practice 21.2 years: Res. Ch. 13.7: Design 9.8.**) Refers to C. T. Bartlett, J. F. Coleman, J. S. Fenner, R. S. Fessenden, L. A. Gueringer, W. W. Hayden, S. M. Young.

LINGLEY, ATLEE CHARLES—State Highway Comm., Jefferson City, Mo.—(Age 34. Born Grafton, Mass.)—Studied International Correspondence Course in engineering: 2 years 984 student, Tufts Coll.: 1910 to Oct. 1912 (2 years) Instrumentman and Inspector for C. W. & R. G. Lingley, Worcester, Mass., survey work and supervision of building construction: Oct. 1912 to June 1918 with Massachusetts Highway Comm., 2 years as Asst. Res. Engr. in charge of construction of pavement, and 4 years Res. Engr. in responsible charge of design, construction and maintenance of pavements on State highways (reporting to Dist. Engr., Boston, Mass.): June 1918 to March 1919 Asst. Engr. on general engineering, Air Nitrate Corporation, U. S. O. D., Muscle Shoals, Ala., supervising construction of streets, sewers, buildings, and erection of machinery and operation of plant: March to June 1919 Asst. Res. Engr. on construction and maintenance, Massachusetts State Highway Comm.: June 1919 to March 1920 Res. Engr., Illinois

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Dept. of Public Works, Div. of Highways, in charge of design and construction on concrete pavements: March 1920 to date with Missouri State Highway Comm., until Feb. 1923 as Div. Engr. in charge of location, design and construction on State roads in a division (10 000 sq. miles, 1 000 miles of State highways to locate and design, cost of construction \$5 000 000); since then Constr. Engr. in full charge of all road and bridge construction (total 2 000 miles, expenditure \$27 000 000). (Active practice 12.9 years: Res. Ch. 7.2: Design 2). Refers to H. E. Frech, M. C. Huckabee, F. D. Hughes, R. W. Jablonsky, H. H. Lotter, H. P. Mobberly, L. B. Smith.

MCAVEN, JOSEPH STANLEIGH—410 Smith's Bldgs., Auckland, New Zealand—(Age 44. Born Thornaby-on-Tees, England.)—Jan. 1903 to June 1905 Res. Engr. on construction 985 of ferro-concrete pier and granite quays at Falmouth, Cornwall, for Borough of Falmouth: June 1905 to May 1906 Res. Engr. on construction of sea defense works, groynes

(1) and revetments, Southwold, Suffolk, England, for Borough of Southwold: June 1906 to June 1909 with Ferro Concreto Co. of Australasia, Ltd., until Dec. 1906 as Asst. Engr. having general supervision of extensive wharf construction and large warehouse construction, Auckland, New Zealand, then Res. Engr. on construction of ferro-concrete wharves, breastworks, leading light beacons for Napier (New Zealand) Harbour Board: July 1909 to March 1910 not on engineering work: April 1910 to Aug. 1912 Asst. Engr. to R. F. Moore, Cons. Engr., Auckland, assisting in general engineering practice, particularly ferro-concrete bridge works: Sept. 1912 to Dec. 1914 Engr., Harbor Board, Whangarei, New Zealand, general design and supervision of harbor works, including plans, etc.: Jan. 1915 to March 1923 in private practice, until 1917 in Whangarei and at present in Auckland, general engineering work but more particularly ferro-concrete construction. (Active practice 19.3 years: Res. Ch. 19.3: Design 14.8). Refers to E. Crow. (Applies in accordance with Sec. 1, Art. 1, of the By-Laws.)

MCMATH, FRANCIS CHARLES—1037 Iroquois Ave., Detroit, Mich.—(Age 56. Born St. Louis, Mo.) (B. E., Washington Univ., St. Louis, Mo., 1887.)—1887 (one year) 986 Draftsman, 1888 to 1894 (7 years) Asst. Engr., and 1894 to 1899 (5 years) Designing Engr., Detroit Bridge & Iron Works: 1900 to 1921 Pres., and 1921 to date Director, (7) Canadian Bridge Co., Ltd., Walkerville, Ont., Canada. (Active practice 36 years: Sub-Prof. work 1: Prof. work 35: Res. Ch. 35: Design 12). Refers to C. W. Bryan, R. S. Buck, H. H. Esselstyn, G. H. Fenkell, C. W. Hubbell, W. Pope, G. F. Porter.

MCQUISTON, CHARLES FITCH—Section 645, Turner Constr. Co., Sanford, Me.—(Age 26. Born Ft. Sheridan, Ill.) (B. S., Mass. Inst. Tech., 1923.)—June 1923 to date Job 987 Accountant and Timekeeper, Turner Constr. Co., on construction of Masonic Bldg., Sanford, Me. (Active practice 0.3 year). Refers to J. B. Babcock, 3d, H. L. Bowman, (2) C. B. Breed, A. Hazen, C. M. Spofford.

MAYERS, HUGH LESTER—P. O. Box 671, Jasper, Ala.—(Age 31. Born Kennedy, Ala.) (B. S. in Civ. Eng., Ala. Pol. Inst., 1914.)—July 1914 Levelman with Gus E. Hauser, 988 Columbus, Miss.: Aug. 1914 to Aug. 1915 Rodman and Instrumentman, Alabama Power Co.: Aug. 1915-Dec. 1916 Rodman and Asst., Southern Ry.: Jan. 1917 to April (10) 1920 Draftsman, Illinois Central R. R., on collection of data from city and county records for maps, and other engineering work: April 1918 to July 1919 (leave of absence) Private, Corporal and 2d Lieut., U. S. Army, Engrs.; 1 year overseas with 306th Engrs., 81st Div., at Officers' Training School at Langres, France (3 months), taught 81st Div. Surveying School, Chiman D'Aisey, France (3 months), in command of troops (3 months); also in charge of various army engineering and construction work, and field and road, mapping and sketching: April 1920 to July 1923 with Alabama State Highway Dept., Montgomery, Ala., as Res. Engr. on bridge construction (Jan. 1921 to July 1922) and Locating Engr. on highways: July 1923 to date Cons. Engr., Stanley & Singer Constr. Co. of LaFayette, Ala., in charge of all engineering in connection with Federal Aid bridge and road work; prepared estimates and bids, design of falsework, selection of equipment, and plant layout, also general supervision of work. (Active practice 9.2 years: Sub-Prof. work 4: Prof. work 5.2: Res. Ch. 3.9). Refers to C. A. Baughman, J. A. C. Callan, J. M. Garrett, W. S. Keller, G. N. Mitcham.

MONAHAN, JAMES THOMAS—325 Belvidere Ave., Jacksonville, Fla.—(Age 29. Born Altoona, Pa.) (B. S., Pa. State Coll., 1916.)—June to Sept. of years 1913 and 1914 989 Chainman, and June to Sept. 1916 Transitman, Min. Eng. Corps, H. C. Frick Coal &

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- Coke Co., Uniontown, Pa.: June to Sept. 1915 Instrumentman, City Eng. Corps, Altoona, (10) Pa.: Sept. 1916 to Aug. 1917 Field Engr., Whitaker-Glessner Steel Co., Portsmouth, Ohio, responsible for layout in construction of blast furnace, power house and ore bins; 1917 to 1918 2d Lieut., U. S. Infantry; Feb. to Aug. 1919 Instrumentman, Pennsylvania State Highway Dept., Harrisburg, Pa.: Aug. 1919 to July 1920 Supt., B. J. Lynch Constr. Co., Meyersdale, Pa., had charge of construction of grading and laying concrete road: July 1920 to date Asst. Dist. Mgr., A. Bentley & Sons. Co., Gen. Contrs., Jacksonville, Fla., in charge of estimating and assisting in general supervision of field work. (Active practice 5.8 years: Prof. work 5.8: Res. Ch. 4.1). Refers to R. B. Daudt, A. Gardner, W. L. Martin, R. Y. Middleton, J. G. Moore, C. B. Pyle, E. D. Walker.

- MONTGOMERY, JAMES FLOURNOY—Mt. Pleasant, Tex.—(Age 38. Born Clinton, Mo.)—Aug. 1905 to March 1907 Rodman and Instrumentman, Eng. Dept., Missouri, Kansas & 990 Texas Ry.: Sept. 1907 to July 1912 Asst. Engr., first 2 years on maintenance work in Chf. Engr.'s office, Dallas, Tex., then in charge of construction of new projects, and (15) July 1912 to Aug. 1919 Div. Engr., in active charge of maintenance of way and structures and design and construction of new projects, M. K. & T. Ry. of Texas: April 1920 to date Div. Engr., St. Louis Southwestern Ry., Mt. Pleasant, Tex., in active charge of maintenance of way and structures and design and construction of new projects. (Active practice 16.9 years: Res. Ch. 8.6: Design 4.7). Refers to F. L. Beal, W. A. Burton, S. B. Fisher, F. W. Green, W. S. Hanley, C. D. Purdon.

- MOORE, VENABLE—Box 956, Dallas, Tex.—(Age 29. Born Nashville, Tenn.)—July 1913 to June 1914 Rodman, Chainman, Levelman, Transitman and Draftsman, M. W. Venable & Son, Charleston, W. Va.: 1914 to Oct. 1915 ill: Oct. and Nov. 1915 Chainman, Levelman, Transitman and Estimator, G. B. Howard & Co., Nashville, Tenn.: Dec. 1915 to (15) May 1916 Draftsman and Asst. Engr., Nashville, Chattanooga & St. Louis Ry. Co., Nashville, Tenn.; Chf. of Party, Asst. Topographer, later in charge of mapping, geological survey of part of Cumberland Plateau, Chf. of Party, cross-section and topography, proposed Radnor Yard Connection, Draftsman, valuation (cut-off): 1916 to 1917 Principal, High School, Forest Depot, Va.: May to Nov. 1917 Tracer and Detailer, Virginia Bridge & Iron Co., Roanoke, Va., buildings and highway bridges: Nov. 1917 to April 1919 1st Lieut., U. S. Army, Cavalry: April to June 1919 Detailer, Doullut & Williams Shipbuilding Co., New Orleans, La., Midship Sections, fabricated ships, Roanoke: June 1919 to Sept. 1923 Detailer, Checker and Asst. to Squad Leader, drawing room, Timekeeper (including duties similar to Res. Engr.), Erection Dept.; Estimator, Designer, Eng. Dept.; and Contr. Engr., Contr. Dept., Virginia Bridge & Iron Co., Roanoke, detailing, checking bridges and buildings; charge of details of steel tipple to replace old wooden structure, Tams, W. Va.; Timekeeper and Gen. Asst. to Foreman, Southern Ry. Bridge, Silver Creek (near Morganton), N. C.; Second Unit, Viscose Silk Mill, Roanoke; Steel Tipple Gulf Smokeless Coal Co., Tams, estimating and checking all classes of structural steel, designing bridges and buildings, estimating and contracting, with consulting service: Sept. 1923 to date Contr. Engr., Virginia Bridge & Iron Co. of Tennessee, Dallas, Tex., general charge of sales, structural steel buildings and bridges, Dallas Territory. (Active practice 6.6 years: Res. Ch. 1.4: Design 1). Refers to P. A. Blackwell, H. A. Davies, E. S. Humphreys, V. H. Smith, G. A. Treter, J. Wilkes.

- MORTON, WILLIAM STANTON—1228 E. 47th St., Chicago, Ill.—(Age 37. Born near New Bern, N. C.)—Completed courses in plane surveying, International Correspondence Schools, in railroad engineering, Washington Univ. (evening classes), and in strength of materials and structural design, Chicago Technical Coll. (evening classes): 1904 to (8) 1908 (about 3 years) Chainman, Rodman, etc., for various surveyors, engineers, railroads, and U. S. Govt. Engrs.: 1908 to 1909 (6 months) Surveyman (Instrumentman), U. S. Govt. Engrs., on surveys and dredging: 1909 to 1910 (1 year) Asst. Engr. to R. A. Colvin, Cons. Engr., in charge of party making sanitary survey of Little River and watershed area of Goldsboro, N. C., water supply (3 months); layout and inspection of sanitary sewers, concrete and asphalt paving, curb and gutter, Goldsboro (3 months); made drainage survey in conjunction with A. C. L. Ry. Engrs. in a damage suit and acted as expert witness (1½ months); made preliminary and location surveys and estimates for 50 miles of railroad for Montgomery Lumber Co. (3½ months); laid out addition to town of Boykins, Va. (1 month): Sept. 1910 to Jan. 1911 Chf. of Party on preliminary and location survey of Jackson-Whitesburg extension, Lexington and Eastern Ry. (now part of Louisville & Nashville Ry.): 1911 to 1912 (1 year) County Engr., Person County, N. C., designed, located and constructed approx. \$100 000 worth of roads

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and drainage work, various court surveys; also located and constructed 20 miles of hard-surfaced road on Central Highway, Johnson County, N. C., and made resurvey and inventory of V. & C. S. Ry. (26 miles), and expert testimony in suit of V. & C. S. Ry. vs. S. & L. Ry.: 1912 to 1913 (1 year) Res. Engr., Copper River & Northwestern Ry., superintending construction, preparation of estimates, etc., on 12-mile residency near Kennicott, Alaska: 1913 to 1914 (1 year) Asst. Engr. to John W. Hays, Petersburg, Va., on design of various small water-works, sewer and paving jobs and acted as Res. Engr. on construction of same work (aggregate \$200 000): April 1914 to Aug. 1915 in private practice, South Boston, Va., designed and constructed 4½ miles of Sanitary sewers, concrete sidewalks, curb and gutter for South Boston; made survey and expert witness in flood damage suit of Waugh vs. Danville Cotton Mill & Power Co.; made survey in conjunction with N. & W. Ry. Engrs. and expert witness in flood damage suit, Glenn vs. N. & W. Ry.; planned and laid out cemetery in Cleveland, Tenn. (cost \$40 000); laid additions to Richmond and Dillwyn, Va., Roxboro, N. C., and Sweetwater and Cleveland, Tenn.; designed and supervised improvements (\$100 000) in connection with some of these additions: Sept. 1915 to May 1916 Asst. Engr. in charge of Florida Branch office, Atlantic Eng. Co. of Savannah, Ga., work principally promotional, making estimates and bidding on new work: June to Sept. 1916 Asst. Engr. to C. D. Putnam, C. E., acting as Chf. of Party on planetary survey (1000 acres) for plans for industrial village, staking out factory buildings, etc., near Dayton, Ohio; also in charge of field party on layout of sanitary sewer for Triangle Park and other topographic surveys: Sept. 1916 to March 1917 Asst. Engr., M. P. R. R., in charge of improvements (about \$80 000) on Arkansas River, hydraulic dredging of new channel at Bridge No. 87: March to June 1917 Draftsman, St. L.-S. F. R. R.: June to Oct. 1917 Asst. Engr. to Alvord & Burdick, Cons. Engrs., on layout and inspection of underground improvements, water service and sewer lines, Camp Grant Cantonment, Rockford, Ill.: Oct. 1917 to Aug. 1918 with M. K. & T. R. R., until April 1918 as Pilot Engr., Valuation Dept., representing carrier on I. C. C. Inventory of 300 miles of main line and about 100 miles of yards, etc.; then Asst. Engr. in charge of bank widening and culvert replacement, substituting concrete arches for pile trestles on Dallas Div. (aggregate \$190 000): Sept. 1918 to April 1919 Asst. to Constr. Quartermaster, Camp Travis Cantonment, supervising erection of remount station, water supply and sewerage: July 1919 to Aug. 1920 Asst. Engr. with A. A. Hassan, on geological and mineral surveys, examinations and reports, and Chief of Party on reconnaissance survey, estimate and report for proposed railroad, Guggenheim mining interests in vicinity of Tegucigalpa, Honduras: Aug. 1920 to Feb. 1921 Draftsman on right-of-way maps, C. & E. I. R. R., Chicago: March to June 1921 Asst. Engr., Spruce Falls Co., Ltd., supervising construction of \$2 500 000 reinforced concrete sulphite mill at Kapuskasing, Ont., Canada: June 1921 to date Asst. on Engr. Corps, in office of Chf. Engr., C. & E. I. Ry., Chicago; made study and estimate for construction period of C. & E. I. System for use in Federal Valuation; made study of and preliminary plans and estimates for two schemes of grade separation at Chicago Heights, Ill. (estimated cost \$1 000 000); made plans for rearrangement of Dolton Yards (estimated cost \$200 000); also other surveys, maps and plans. (Active practice 16.5 years: Sub-Prof. work 3.5: Prof. work 13: Res. Ch. 12.3: Design 4). Refers to L. M. Bush, S. B. Fisher, E. A. Hadley, F. D. Nash, J. H. Pratt.

NEBOLSINE, ROSTISLAV—Harvard Club, 44th St., New York City—(Age 23. Born Petrograd, Russia.) (S. B., Mass. Inst. Tech., 1920; M. S. in San. and Mun. Eng., Harvard 993 Eng. School, 1921).—Aug. 1921 to May 1922 Draftsman and Designer International Mercantile Marine Co., on reconditioning of *S. S. Leviathan*, structural steelwork and (1) installation of fuel oil burning equipment: May to July 1922 Asst. Field Engr. with Chas. W. Leavitt, on construction of Westchester Biltmore Country Club, inspection of concrete roads, measurement of quantities and surveying: Aug. 1922 to July 1923 Asst. Engr., Shelton Holding Corporation, on construction of Shelton Club Hotel (33 stories, \$4 000 000), inspection, supervision, design; did most of the field engineering work on this. (Active practice 2 years: Sub-Prof. work 0.8: Prof. work 1.2: Design 0.8). Refers to C. Herschel, C. A. Kendall, R. R. Rumery, C. M. Spofford, G. F. Swain, G. C. Whipple.

NEWMAN, ARTHUR HEMPSTEAD—Bridge Hampton, N. Y.—(Age 28. Born Bridge 994 Hampton, N. Y.) (B. S. in C. E., Union Coll., 1920).—Jan. to Oct. 1917 Jun. Engr. Transit Comm., Transitman and Chf. of Party, subway construction, New York City: June 1920 to April 1921 Architectural Draftsman and Designer, Dept. of Public Works, (3) Santo Domingo, Dominican Republic: May 1921 to April 1923 Steel Draftsman, Phoenix

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Bridge Co., detail, estimating, design of steel structures: April to Aug. 1923 Concrete Draftsman, Dwight P. Robinson & Co., Inc., detail and design of reinforced concrete buildings. (**Active practice 3.1 years: Design 0.5.**) Refers to S. Gowen, W. H. Halsey, O. H. Landreth, F. P. McKibben, W. C. Taylor.

PERRY, EMMANUEL VON BETZEN—55 Hanson Pl., Brooklyn, N. Y.—(Age 28. Born Boston, Mass.) (B. S. in Civ. Eng., Tufts Coll. Eng. School, 1921.)—Aug. 1916 to Sept. 995 1917 and June to July 1918 Inspector of construction, New York, New Haven & Hartford R. R., including surveying, track work, etc.: Aug. 1921 to March 1923 in charge of (1) office during design and Res. Engr. during construction of chemistry building for Tufts Coll.: April 1923 to date Structural Designer, D. P. Robinson Co., work covers reinforced concrete design on heavy power-house construction. (**Active practice 3.4 years: Sub-Prof. work 1.2: Prof. work 2.2: Res. Ch. 1.2: Design 1.**) Refers to H. P. Burden, E. McCollough, E. H. Rockwell, J. M. Sullivan, E. H. Wright.

PROCTOR, CARLTON SPRINGER—9 East 45th St., New York City.—(Age 30. Born Washington, D. C.) (C. E., Princeton Univ., 1916.)—Prior to June 1912 Timekeeper, 996 Chainman, Instrumentman, etc., Washington Ry. & Elec. Co., Southern R. R., and Mellon Constr. Co. of Washington, D. C.: June to Oct. 1912 Transitman, U. S. Forest Service: (1) June 1914 to Oct. 1915 Supt. of construction on foundations for American Red Cross Bldg. at Washington, D. C., and for Arlington Memorial Amphitheatre at Arlington, Va., for U. S. Dept. of Public Bldgs. and Grounds, at Washington, D. C.: June 1916 to Sept. 1918 Supt. of Constr. (6 months) and in charge of Washington office and all southern work (9 months) for McKenzie, Voorhees & Gmelin, Archts., New York City: Sept. 1918 to Oct. 1919 1st Lieut. and Capt., U. S. Army, Constr. Officer in charge of construction of U. S. Gen. Hospitals, No. 32 at Chicago, Ill., and No. 40, at St. Louis, Mo., and 2d Sec. of Walter Reed Gen. Hospital at Takoma Park, D. C.: Oct. 1919 to date member of firm, Moran, Maurice & Proctor, Cons. Engrs., New York City, Designing and Superv. Engrs. for foundations for Cunard, American Telephone & Telegraph, Barrett, City Real Estate, American Surety, Equitable Life, Barclay-Vesey, and Mutual Chemical Buildings, New York Stock and New York Cotton Exchanges, Federal Reserve Bank, New York County Court House, New York American League Stadium, 5th Ave. Church, Geo. Washington National Memorial, National Acad. of Science, Philadelphia-Camden Bridge, East 16th St. Bridge, Pittsburgh, and new Poughkeepsie Bridge. (**Active practice 8 years: Sub-Prof. work 0.3: Prof. work 7.7: Res. Ch. 7.8: Design 5.8.**) Refers to R. A. Backus, G. E. Beggs, H. J. Deutschbein, D. E. Moran, J. W. Pickworth, P. Sawyer, S. C. Weiskopf, C. C. Wright.

RIDDICK, WALLACE CARL—State Coll., Raleigh, N. C.—(Age 59. Born Raleigh, N. C.) (A. B., Univ. of N. C., 1885; C. E., Lehigh Univ., 1890; L. L. D., Wake Forest Coll. 997 and Lehigh Univ., 1917.)—1890 to 1892 (2 years) Engr. of Constr., Graystone Granite & Constr. Co., on canal for development of water power: 1892 to 1916 (24 years) Prof. (10) of Civ. Eng., North Carolina State Coll. of Agriculture and Eng.; 1916 to 1923 (7 years) also Pres. of the College and 1923 Dean of the School of Eng.: also Engr. in charge of many projects, including design and construction of system of sewers for Southern Pines, N. C. (about 1900), system of sewers and addition to water supply, Lumberton, N. C. (about 1903), and of water supply and sewer system, Town of Weldon, N. C. (about 1912); investigation and report on Short Line R. R., Manson to Townsville, N. C. (about 1905); Expert Witness for Kennefick Hoffman Co. in suit vs. Norfolk Southern R. R., involving investigation and report on about 60 miles of construction (about 1913); Expert for W. R. Bonsal in controversy with Atlantic Coast Line R. R. and other matters (about 1913); extension and improvement of water supply, City of Raleigh (about 1912); Expert to Legal Dept., Seaboard Air Line R. R. (1892 to 1916), and many other projects. (**Active practice 33 years: Prof. work 33: Res. Ch. 31: Design 5.**) Refers to J. L. Becton, W. D. Fauchette, J. L. Ludlow, C. L. Mann, H. Tucker, C. E. Waddell, G. C. White.

ROBBINS, JOHN ANGELL—Technology Club, 17 Gramercy Park, New York City—(Age 30. Born Raubsville, Pa.) (B. S. in Arch., Univ. of Pa., 1921; S. B., Mass. Inst. Tech., 998 1923.)—1911 to 1914 (3 years) with Asa P. Smith & Son, Contrs. and Bldrs., Easton, Pa.: 1914 to 1915 (1 year) with Sterling Products Co., Easton, in charge of construction: 1916 (nearly 4 months, vacation) with American Concrete Steel Co., Ingersoll Rand Co.'s Project, Phillipsburg, N. J.: 1917 (nearly 4 months, vacation) with Westinghouse, Church, Kerr & Co., Taylor Wharton Project, West Easton, Pa.: 1917 to 1919

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(1½ years) with A. E. F., 25th Engrs., Co. B (foreign service): 1920 (vacation months) took summer course in surveying, Lehigh Univ.: 1921 (nearly 4 months, vacation) with McCullen & Campion, Engrs., Philadelphia, Pa., on structural and reinforced concrete designing: 1922 (nearly 4 months, vacation) with U. G. I. Contr. Co., Philadelphia, designing and investigating existing power plant conditions: 1923 to date with Elec. Bond & Share Co., New York City, designing and checking. (**Active practice 5.2 years**). Refers to G. Blaauw, A. Castillo y Grau, L. R. Cobb, S. P. Cobb, W. H. Gravell.

SCHUTT, HARRY—110 St. Nicholas Ave., New York City—(C. E., Pol. Inst. of Brooklyn, 1921.) (Age 24. Born New York City.)—Sept. 1921 to Jan. 1922 Chainman, Title 999 Guarantee & Trust Co., New York City: May 1922 to April 1923 Transitman, Dept. of Water Supply, Gas and Electricity, New York City: April to Sept. 1923 Transitman, (1) office of Borough President, Bronx, New York City. (**Active practice 1.7 years: Sub-Prof. work 1.7**). Refers to H. R. Codwise, H. P. Hammond, C. W. Hudson, H. P. Michener, E. J. Squire.

SHERMAN, MYRON WOOD—Care, W. G. Clarkson Co., Ft. Worth, Tex.—(Age 36. Born Richland Center, Wis.)—1905 to 1908 (2½ years) student, Univ. of Wisconsin: 1908 1000 to 1913 (3½ years) Engr. Inspector, Board of Superv. Engrs., Chicago Traction, car barn and sub-station construction, 6 months Asst. on valuation of buildings: 1913 to (15) 1914 (1 year) Asst. to Constr. Supt., Fred A. Jones Bldg. Co., Dallas, Tex., concrete framing, in charge: 1914 to 1915 (6 months) Location Engr., Central R. R. of Texas, charge of survey party in field, preliminary and final location: 1915 to 1916 (1 year) Prof. Engr., Corpus Christi, Tex., land surveying and mapping: 1921 to date (2½ years) Supt. of Constr., W. G. Clarkson & Co., Archts., Ft. Worth, Tex. (**Active practice 8.5 years: Sub-Prof. work 3: Prof. work 5.5: Res. Ch. 5.5**). Refers to B. J. Arnold, J. H. Brillhart, T. S. Byrne, H. B. Friedman, J. D. Johnson, F. A. Jones, R. Y. Walker.

SIEGEL, LOUIS BARNET—422 St. Paul's Pl., New York City—(Age 24. Born Lomza, Poland.) (B. S. in C. E., Cooper Union Inst. Tech., 1923.)—May to July 1923 Draftsman, New York Edison Co., New York City: July 1923 to date with D. B. Steinman, Cons. Engr., New York City, drafting and designing. (**Active practice 0.4 year: Sub-Prof. work 0.4**). Refers to H. R. Codwise, F. E. Foss, G. Morrison, D. B. Steinman, J. P. J. Williams.

SPRY, FREDERICK JOSIAH—Phoenix Utility Co., Hawley, Pa.—(Age 35. Born Plymouth, Pa.) (C. E., Lafayette Coll., 1914.)—June 1914 to May 1917 Levelman, Lehigh Valley 1002R. R., after Sept. 1915 Instrumentman on surveys, Chf. of Party on curve relocation: May 1917 to July 1918 and Jan. 1919 to Aug. 1920 Transitman, same railroad; Chf. of (4) Party on surveys and general layout work, track design, estimating, drafting in office: July 1918 to Jan. 1919 Private, U. S. Army Engrs.: Aug. 1920 to July 1923 Asst. City Engr., Auburn, N. Y., in complete charge of making new land tax of the city: July 1923 to date Chf. of Party, Phoenix Utility Co., in charge of party making surveys for Wallenpaupack Dam at Wilsonville near Hawley, Pa. (**Active practice 8.6 years: Sub-Prof. work 2.2: Prof. work 6.4: Res. Ch. 4.8**). Refers to F. C. Gamsu, W. S. Lohr, W. T. Lyle, F. A. Renner, H. T. Spengler, F. C. Stehle.

SULLIVAN, THOMAS FRANCIS—1736 Columbia Rd., Boston, Mass.—(Age 45. Born Boston, Mass.)—1895 to 1898 (3 years) Rodman and Instrumentman, Henry W. Wilson, 1003 Surveyor, Boston: April 1899 to April 1918 with Boston Elevated Ry. Co., until July 1908 as Timekeeper, Clerk, Chf. Clerk and Asst. Roadmaster, Dept. of M. of W., then (2) Asst. Supt. of Tracks, and after Sept. 1912 Roadmaster of Surface Lines, in charge of construction and maintenance: April 1918 to March 1922 Commr. of Public Works (City Engr.), Boston, in charge of construction and maintenance of highways, street lighting, bridges, ferries, water, sewers, street cleaning, refuse and garbage collection and disposal: July 1918 to March 1922 Transit Commr., City of Boston, and April 1922 to date Chairman, Boston Transit Comm., in charge of design, construction and maintenance of subways and tunnels. (**Active practice 27.3 years: Res. Ch. 11.5: Design 20.5**). Refers to W. W. Davis, C. T. Fernald, H. C. Hartwell, L. K. Rourke, H. M. Steward.

SWANSON, WILLIAM STANLEY—1341 North Shore Ave., Chicago, Ill.—(Age 32. Born Minneapolis, Minn.)—Jan. 1919 received diploma from International Correspondence Schools: student, course in Structural Eng., Dunwoody Inst., Minneapolis, Minn. (1919)

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- and one year Civ. Eng. Course, Chicago Technical Coll. (1921) : April 1916–April 1917
 (8) Structural Designer for W. L. Alban, Archt. St. Paul, Minn., structural designing with structural plans for several school buildings: May 1917–April 1918 Structural Draftsman and Designer, C. A. P. Turner Co., Cons. Engrs., Minneapolis, design and detail of all types of buildings and some bridges: May 1918 to date Designer and Estimator, all kinds of construction, such as buildings, bridges and sewerage plants (3 years), in responsible charge of Estimating Dept. (over 2 years), covering proposed designs on construction with estimates, Kalman Steel Co., Chicago. (Active practice 7.5 years: Prof. work 7.5: Res. Ch. 2.5: Design 4). Refers to H. M. Bringhurst, V. L. Fixen, F. Rogers, J. A. Scanlan, C. A. Walkwitz.

TAYLOR, ERNEST SUCCOP—Pittsburgh Coal Co., Box 64, Pittsburgh, Pa.—(Age 38. Born McKeesport, Pa.) (C. E., Western Univ. of Pa., 1906)—June 1906 to date with 1005 Pittsburgh Coal Co., until Nov. 1907 as Transitman on construction of coal and coking plants at Grindstone, Pa., then Engr. in main office at Pittsburgh, on design and construction of various modern coal-mining plants, and since May 1916 Engr. of Designs and Constr. having charge of design and construction of all improvements, including railroad sidings and bridges, shafts, head-frames, tipplers and equipment, power and ventilating plants, repair shops, mining towns and coal docks; responsible charge of improvements included principally modern coal mining plants known as Delmont Mine, Montour Nos. 1, 2, 4, 8, 9, and 10 mines (capacity of each 3,000 tons per day), in Allegheny, Washington and Westmoreland Counties, Pa.; modern fueling dock in St. Marie's River near Sault Ste. Marie; fueling dock in Detroit River near Detroit; modern fireproof machine shop and warehouse for repair work at Library, Pa.; several railroad bridges for Montour R. R. near Pittsburgh; substructure for modern railroad bridge over Big Sandy River, near Betsy Layne, Ky., for Pike-Floyd Coal Co. (Active practice 17.3 years: Res. Ch. 7.4: Design 8.5). Refers to G. S. Baton, C. H. Harlan, E. K. Morse, F. A. Pruitt, J. M. Rayburn.

VAN NESS, JOHN HAROLD—765 E. 25th St., Paterson, N. J.—(Age 22. Born Paterson, N. J.) (C. E., Lehigh Univ., 1923)—June to Aug. of years 1921 and 1922 Engr.'s Asst., 1006 Passaic County Eng. Corps, field and office work: June to Aug. 1923 Computer, Honolulu Iron Works Co., appraisal work. (Active practice 0.1 year: Sub-Prof. work 0.1).
 (1) Refers to G. Ferguson, R. J. Fogg, M. O. Fuller, F. J. Lewis, H. G. Payrow, W. L. Wilson.

WALLIS, ROLLAND SCHANEL—619 Eighth St., Ames, Iowa—(Age 38. Born Black Earth, Wis.) (B. S. in E. E., 1907, B. S. in C. E., 1911, and C. E., 1915, Iowa State Coll.)—1007 June 1907 to Sept. 1908 Designing Draftsman, Office, Chf. of Ordnance, U. S. Army, Washington, D. C., detailing, designing and checking gun carriages: May to Sept. 1909
 (7) Mech. and Civ. Engr., American Gas Constr. Co., Newton, Iowa, building construction and laying street mains, drafting, mostly gas machinery: April 1910 to Jan. 1911 Draftsman, Missouri Pacific Ry., M. of W. Dept., St. Louis, Mo.: Jan. to Sept. 1911 Designing Draftsman, American Brake Co., St. Louis, on design and detailing of locomotive brakes: Sept. 1911 to June 1912 Instructor, and Sept. 1912 to Sept. 1917 Asst. Prof. in Civ. Eng., Civ. Eng. Dept., Iowa State Coll.: Sept. 1917 to March 1918 Asst. Prof. in Civ. Eng., Civ. Eng. Dept., Missouri School of Mines, Rolla, Mo.: March to Sept. 1918 Chf. Draftsman and Office Engr., Office of Director, U. S. Government Explosives Plant C, Nitro, W. Va., drafting room and office supervision: Sept. 1918 to Sept. 1919 Asst. Prof. in Civ. Eng., Civ. Eng. Dept., and Sept. 1919 to Sept. 1920 Associate Prof., Drawing Dept., in charge of Dept., Missouri School of Mines: Sept. 1920 to Sept. 1923 Prof. (Municipal Engr.), Eng. Extension Dept., Iowa State Coll., office routine, consultant in municipal lines, writing of engineering bulletins, etc. (Active practice 14.7 years: Res. Ch. 10: Design 8.1). Refers to T. R. Agg, R. W. Crum, E. G. Harris, P. F. Hopkins, A. Marston, C. S. Nichols.

WHITE, PHILIP HASTINGS—18 Prospect St., Clinton, Mass.—(Age 23. Born Clinton, Mass.) (B. S. in Civ. Eng., Worcester Pol. Inst., 1922)—July to Aug. 1920 Rodman 1008 and Draftsman, Metropolitan Dist. Comm., Commonwealth of Massachusetts, on property surveys and plans: July 1922 to date with U. S. Coast and Geodetic Survey, until Sept. 1922 as Jun. Engr. on current meter survey of New York Harbor; then Deck Officer in deep sea sounding and hydrography off San Diego, Cal.; since April 1923 Aid in triangulation, topography, hydrography, and magnetism with party in Alaska. (Active practice 1.2 years). Refers to A. W. French, C. L. Garner, H. W. Hemple, H. C. Ives, A. J. Knight, H. A. Seran.

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WINKLER, EDWARD RUDOLPH, Jr.—Y. M. C. A., Trenton, N. J.—(Age 23. Born Camden, N. J.) (B. S. in C. E., Univ. of Pa., 1923.)—July to Oct. 1920 Transitman, 1009 Highway Bureau, Philadelphia: June to Oct. 1922 Asst. Inspector on grading and sewers, also some concrete work, Pennsylvania State Highway Dept.: June 1923 to date (4) Rodman, New York Div., Pennsylvania R. R. (**Active practice 0.3 year**). Refers to H. C. Berry, A. J. Boase, C. L. Eckel, E. L. Ingram, M. S. Ketchum.

WOLF, RICHARD JARRETT—5817 N. 13th St., Philadelphia, Pa.—(Age 25. Born Philadelphia, Pa.) (B. S. in C. E., Towne Sci. School, Univ. of Pa., 1923.)—1916 to 1919 1010 (3 years) Apprentice and Tracer, three summers (while student) with Field Corps, becoming Draftsman during third summer, and July 1923 to date Draftsman, Dept. of (4) City Transit, Philadelphia. (**Active practice 3.2 years: Design 0.1**). Refers to H. C. Berry, E. T. Grandlienard, S. Harris, H. H. Quimby, C. H. Stevens.

WORTHINGTON, HAROLD LEGG—4515 Eighteenth Ave., N. E., Seattle, Wash.—(Age 21. 1011 Born Quilcene, Wash.) (B. S. in C. E., Univ. of Wash., 1923.)—Refers to W. F. (12) Allison, I. L. Collier, C. C. More, J. C. Rathbun, H. K. Rubey.

WU, ERLLIAN CH'I YU—500 West 122d St., New York City—(Age 23. Born Peking, China.) (C. E., Rens. Pol. Inst., 1923.)—July to Aug. 1922 Draftsman, and June 1923 1012 to date Asst. Engr. on caisson work, The Foundation Co., New York City. (**Active practice 0.3 year**). Refers to E. R. Cary, L. W. Clark, H. Englander, T. R. Lawson, (1) W. P. Mason, P. C. Ricketts.

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FROM THE GRADE OF ASSOCIATE MEMBER

BESSEY, ROY FREDERIC, Assoc. M. AM. Soc. C. E.—711 Van Buren St., N. W., Washington, D. C.—(elected Jan. 14, 1918.) (Age 34. Born Brooklyn, N. Y.)—Feb. 1906 1013 to Feb. 1909 Clerk and Rodman, New York Central R. R.: Feb. 1909 to June 1911 with Boston & Albany R. R., Eng. Dept., as Rodman, on instrument work, inspection (5) and in occasional charge of field party on heavy construction, grade separation, etc., at Worcester, Mass.: 1909-1911 (evenings) student, Co-operative Eng. School, Boston: June 1911 to Nov. 1914 with Isthmian Canal Comm., Panama Canal, Pacific and Terminal Constr. Divs., as Draftsman and Designer on construction plant, wharves, piers, walls, coaling plant, miscellaneous structures; second in charge of branch design office: Jan. to March 1915 Draftsman, U. S. Navy Yard, New York: March to Nov. 1915 Jun. Engr. on drafting and design of irrigation structures, canals, etc., U. S. Reclamation Service, Strawberry Valley Project, Utah: Feb. to Sept. 1916 Draftsman on design and in charge of construction of mechanical shops, etc., Nichols Copper Co., Laurel Hill, N. Y.: Sept. 1916 to date (except June 1918 to Aug. 1919) with U. S. Navy Dept., Bureau of Yards and Docks, as Leading Draftsman (1916), Chf. Draftsman (1916), Div. of Special Projects; Asst. Project Mgr. (from 1917), Shipbuilding Facilities, Yard Development and Storage Sec.; Asst. in charge of design, plans and specifications and administrative work in connection with design and construction of industrial buildings, shipbuilding slips, waterfront development, piers, quay walls, docks, weight-handling equipment, foundations, terminals, supply bases, storehouses, tracks, streets, sewers, etc. (estimated cost about \$125 000 000): June 1918 to Aug. 1919 with U. S. Army, A. E. F., 57th Engrs., as Acting Adj't., Constr. Officer, Executive Officer, Port of Grigny, also Acting Co. Commander, Summary Court, etc.; with 126th Engrs. as Adj't., Co. Commander, Asst. on construction, Executive Officer, Road Dept., Base Sec. No. 5; also Summary Court Camp Adj't., etc. (**Active practice 15.2 years: Sub-Prof. work 3.1: Prof. work 12.1: Res. Ch. 8: Design 10.4**). Refers to R. E. Bakenhus, F. T. Chambers, L. E. Gregory, G. A. McKay, H. H. Rousseau, W. Rowland, E. C. Sherman, J. Stewart, C. D. Thurber, R. Whitman.

HAMMOND, LEWIS MERRICK, Assoc. M. AM. Soc. C. E.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—(elected Junior March 2, 1915; Assoc. M. Oct. 9, 1014 1917.) (Age 34. Born Chicago, Ill.) (B. S., Civ. Eng. course, 1910, and C. E., 1913, Univ. of Wis.)—July to Aug. 1910 Structural Draftsman, Modern Steel Struc- (5) tural Co., Waukesha, Wis.: Aug. 1910 to Dec. 1916 with U. S. Reclamation Service, Strawberry Valley Project, Utah, as follows: Aug. 1910 to May 1911 Rodman; May 1911 to May 1912 Instrumentman; May to Dec. 1912 and May to Oct. 1913 in charge of engineering at Strawberry Dam, writing and signing construction reports, and in

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charge of field and office work for construction; Dec. 1912 to May 1913 on final report of storage works; Oct. 1913 to Dec. 1916 in Provo office on designs for distribution systems, including detail hydraulic and structural designs for 70 miles of main canals and laterals, and several hundred structures of various types, including bridges, turnouts, checks, drops, chutes, siphons, culverts, flumes, etc.; Dec. 1916 to date with Bureau of Yards and Docks, Navy Dept., Washington, D. C., as follows: Dec. 1916 to Jan. 1919 Squad Leader in Shipbuilding Facilities Sec. of Bureau, in charge or partial charge (under Project Mgr.) of plans and specifications for several of projects initiated by the section, including Washington gun shop, Norfolk machine shop, Philadelphia foundry, Pensacola hangar, Philadelphia fitting out pier, Norfolk steel storage shed, etc.; Jan. 1919 to Nov. 1920 same work on San Diego aviation pier, San Diego and Pearl Harbor marine railways, etc.; also Special Asst., Shipbuilding Facilities Sec., in charge of accounting work, records of expenditures, etc., of section (over \$50 000 000), and handling of correspondence relative to Bureau contracts, etc.; since Nov. 1920 Asst. Project Mgr., Aviation Sec. (Acting Project Mgr. for about 6 months), in charge (under Project Mgr.) of plans and specifications for all new and maintenance construction at all naval air stations, including complete Lighter-than-Air station at Lakehurst (\$6 000 000), complete Heavier-than-Air Station at Pearl Harbor (\$2 000 000), and shops, hangars, barracks, industrial and miscellaneous buildings and distribution systems at other stations; also routine and special work in connection with work of the section. (Active practice 13.2 years: Sub-Prof. work 2.2: Prof. work 11: Res. Ch. 7: Design 9.1). Refers to R. E. Bakenhus, L. E. Gregory, J. L. Lytel, G. A. McKay, E. C. Sherman, R. M. Strohl, C. D. Thurber, S. Truscott.

HENDERSON, ADELBERT ANDREW, Assoc. M. AM. SOC. C. E.—301 Court House, Pittsburgh, Pa.—(elected April 4, 1906.) (Age 50. Born Franklin Co., Ohio.) (A. B., 1895, 1015 and M. A., 1898, Ohio Wesleyan Univ.; C. E., Ohio State Univ., 1898.)—July 1898 to Feb. 1899 Asst. on Field Corps, City Engr.'s office, Columbus, Ohio, on property surveys,

(6) contour surveys and investigations of site for Scioto River Storage Dam; also staking out and supervising construction of sewers, pavements and sidewalks: Feb. to Oct. 1899 Asst. on Corps, M. of W. Dept., Indianapolis Div., Pennsylvania Lines West, designed and assisted in design and construction of various railway bridges, made property surveys of right of way, etc.: Oct. 1899 to Feb. 1900 Jun. Civ. Engr., U. S. Engr. office, Cincinnati, Ohio; Transitman in charge of transit section of party on survey of Ohio River for location of locks and dams, in Ohio, Kentucky and Indiana; assisted on survey for shore protection at Golconda, Ill.: Feb. 1900 to 1922 Asst. Engr., and 1922 to date Deputy Engr., Allegheny County Engr.'s office, Pittsburgh, Pa., located, designed and supervised construction of numerous highway bridges (arch, plate and concrete girders, and stone and concrete arches); in charge of surveys (location, triangulation, hydrographic and property) for various highway bridges over the Ohio, Allegheny, Monongahela and Youghiogheny Rivers; made surveys, prepared plans and reports, and gave expert advice to Board of Viewers in some 600 views for location of public roads and bridges; made survey and computed area of numerous tracts of land: Registered Engr. and Land Surveyor, Pennsylvania. (Active practice 25.1 years: Prof. work 25.1 Res. Ch. 24: Design 23.7). Refers to L. P. Blum, V. R. Covell, C. K. Harvey, E. A. Kemmler, A. B. McGrew, W. Whited.

KOLYN, MARION DEN HERDER, Assoc. M. AM. SOC. C. E.—Drexel Inst., Philadelphia, Pa.—(elected Jan. 17, 1921.) (Age 35. Born Spring Lake, Mich.) (B. S. in C. E., 1016 Univ. of Mich., 1909.)—July 1909 to July 1910 Detailer in Bridge Drafting Room, American Bridge Co., Ambridge Plant: Aug. 1910 to May 1912 Bridge Designer, Bridge (4) Dept., Michigan Central R. R., railroad and highway bridges, including reinforcement of Niagara Cantilever, and in direct charge of erection on this work: May 1912 to April 1913 and March 1914 to May 1915 Reinforced Concrete Designer, Eng. Dept., Chicago, Milwaukee & St. Paul Ry., design of open or trestle type abutments, and development of a national method for computing stresses in same; design of arch bridges on Puget Sound Line, developing and applying therein method of ellipse of elasticity; experimental work on rubber models to determine distribution of bending moment stresses around L- and T-shaped corners of rigid joints: April 1913 to Feb. 1914 Bridge Designer, Chicago & Alton R. R., track elevation in steel and reinforced concrete; statistical work; stress analysis and engine classification of all bridges on system: Aug. 1915 to June 1916 and March to July 1917 Asst. to I. F. Stern, Cons. Civ. Engr., design of a series of bridges with open abutments for Chicago & Milwaukee Elec. Ry., reinforced concrete

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viaducts, water tower, etc.; special reports; design of docks and warehouses: June to Nov. 1916 Private, Co. A, 1st Illinois Engrs., most of time at Fort Sam Houston, San Antonio, Tex., on special detail to Constr. Q. M., Southern Dept., in charge of design for temporary structures of the Dept., and of construction at Camp Wilson adjoining the fort: Nov. 1916 to Feb. 1917 on design of reinforced concrete grain elevators for R. H. Folwell and for Witherspoon & Englar Contr. Co., both of Chicago: July 1917 to Sept. 1919 with Corps of Engrs. (Regular), U. S. Army, at Ft. Leavenworth, Kans., as 2d Lieut., Army Service School (2 months), and 1st Lieut., Co. B, 7th U. S. Engrs. (1 month); then Capt., Co. A, 7th U. S. Engrs., and Co. F, 105th Engrs. (1 year); Major with Engr. Purchasing Officer, first as Liaison Officer to French Genie, and later settling United States construction contracts in France (11 months): Sept. to Dec. 1919 Asst. Prof., and since then Prof., of Civ. Eng. at Drexel Inst. in charge of Civ. Eng. Dept.: Oct. 1921 to date also Pres., Kelyn Constr. Co., Engrs. and Contrs., Trenton, N. J., building highway bridges, dock work, storm sewer, and general work in reinforced concrete and heavy timber framing. (Active practice 14.8 years: Prof. work 14.8: Res. Ch. 7.8: Design 8.8). Refers to J. H. Bringhurst, W. C. Cattell, W. Easby, Jr., R. L. Humphrey, I. F. Stern, C. J. Tilden.

LAMBERT, JOHN ROBERT, Assoc. M. AM. Soc. C. E.—239 Fourth Ave., Phoenixville, Pa.—(elected April 19, 1920.) (Age 39. Born Niles, Mich.) (B. S., 1906, and C. E., 1914, 1017 Mich. Agri. Coll.)—July 1906 to May 1911 Draftsman, May 1911 to Jan. 1918 Designer and Estimator, and Jan. 1918 to date Asst. Chf. Engr., Phoenix Bridge Co. (Active (4) practice 17.2 years: Sub-Prof. work 4.8: Prof. work 12.4: Res. Ch. 12.4: Design 6.7). Refers to T. A. Coffin, C. W. Hudson, C. W. MacCormack, N. R. McLaren, W. R. Okeson.

ROSENWALD, JESSE, Assoc. M. AM. Soc. C. E.—1560 Sacramento St., San Francisco, Cal.—(elected Nov. 25, 1919.) (Age 32. Born San Francisco, Cal.) (B. S., Univ. of 1018 Cal., 1913.)—May to Dec. 1913 detailing structural steel buildings, highway bridges, etc., Pacific Rolling Mills Co., San Francisco: May 1914 to Dec. 1915 with Maurice C. (13) Couchot, San Francisco, designing steel, concrete and wood buildings, theatres, apartment houses, clubs, hotels, schools, stores, banks, hospitals and industrial plants: Dec. 1915 to May 1916 with Dyer Bros. (5 months), and H. J. Brunnier (over 1 month), San Francisco, detailing structural steel buildings: May 1916 to Feb. 1922 associated with Maurice C. Couchot, San Francisco, designing structures and in charge of office and inspection, industrial plants, flour mills, warehouses, grain elevators, office buildings, cement bins, rice mill and warehouse, bank building, etc.: Feb. 1922 to date associated with Kenneth MacDonald, Jr., and Maurice C. Couchot, designing and inspecting structures, hotels and office buildings. (Active practice 10.1 years: Res. Ch. 7.4: Design 9). Refers to J. R. Cahill, M. C. Couchot, J. D. Galloway, W. L. Huber, L. H. Nishkian.

SARGENT, EDWARD HAYNES, Assoc. M. AM. Soc. C. E.—224 Delaware Ave., Albany, N. Y.—(elected Dec. 31, 1913.) (Age 38. Born Newburyport, Mass.)—Special student 1019 at Massachusetts Inst. of Technology in electro-chemistry (1902-1903), and in civil engineering (1903-1907): July to Sept. of years 1906 and 1907 and April to Sept. (3) 1909 Rodman, Board of Water Supply, New York City, on surveys, and on design and estimate of Catskill Aqueduct structures: Sept. 1907 to March 1908, July 1908 to March 1909 and Sept. 1909 to Oct. 1910 Instrumentman and Draftsman, New York State Water Supply Comm., on surveys, running transit and in charge of party, also mapping, on stream flow studies, etc.: Oct. 1910 to Oct. 1915 Asst. Civ. Engr. in charge of office drafting and computing force, New York State Water Supply Comm. (later Conservation Comm.), making rainfall and stream-flow studies showing regulation and power obtained by storage reservoirs on rivers in the state, making preliminary designs and estimates for water-power and water-supply projects: Oct. 1915 to May 1917 and Jan. 1919 to June 1921 Senior Asst. Engr., New York Conservation Comm., in charge of all work (under Div. Engr.) relating to water storage and water power, including directing of surveys, investigations, and reports of water power and storage possibilities of principal rivers of state, including preliminary designs and estimates; also in charge of design and construction of Sixth Lake reinforced concrete dam (\$22 000), and several concrete docks (\$25 000): May 1917 to Jan. 1919 Capt. of Engrs., U. S. Army, with 116th Engrs., and Technical Board (G. P. A.) arranging for power supply to U. S. Army activities in France; also made reconnaissances and reported on water powers in France available to U. S. Army: June 1921 to Feb. 1923 Chf. of Bureau of Water Power, New York State Engr.'s Dept., and Engr. to New York Water Power Comm.

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in charge of water-power investigations and inspecting and reporting on all plans for power development on Niagara, St. Lawrence and other rivers, in charge of design of Crescent and Vischer Ferry hydro-electric plants (\$2 300 000) (constructed) : Feb. 1923 to date Engr. (in charge), Hudson River Regulating Dist.; work includes general plan for regulation of flow of Hudson River (completed); at present on preliminary plans for Sacandaga Reservoir (\$7 000 000), including design of proposed dam, bridges, railroad and highway relocations. (Active practice 14.9 years: Sub-Prof. work 2.5: Prof. work 11.4: Res. Ch. 11.4: Design 6.8). Refers to A. S. Crane, W. B. Landreth, W. McCulloch, R. W. Sherman, M. H. Smith, F. M. Williams, F. P. Williams.

SIEBERT, CHRISTIAN LUDEWIG, Assoc. M. AM. Soc. C. E.—Camp Hill, Pa.—(elected April 14, 1919.) (Age 35. Born Pittsburgh, Pa.) (B. S., Lafayette Coll., 1911)—1020 Sept. 1911 to June 1912 Instructor in sanitary science, bacteriology and biology, Lehigh Univ., also graduate study in sanitary science and bacteriology: July 1912 to Nov. 1917 (4) and Aug. 1919 to July 1920 Asst. Engr., and July 1920 to date Dist. Engr., Pennsylvania Dept. of Health, supervising operation of water- and sewage-treatment works, investigating epidemics of water-borne disease and instituting precautions incident thereto, reviewing plans and specifications of proposed water-works and sewerage systems, including water-purification and sewage-treatment works, inspection of dairies and creameries, investigations of industrial wastes, sanitary surveys, military camp sanitation, chemical and bacteriological examination of water and general sanitary engineering: Nov. 1917 to March 1918 First Lieut., and March 1918 to Aug. 1919 Capt., San. Corps, U. S. Army, Camp San. Engr., Camp Dix, N. J., supervising water purification, sewage treatment and garbage disposal and in charge of mosquito and fly control, drainage and general sanitary engineering: registered as Engr., State of Pennsylvania. (Active practice 12.1 years: Prof. work 12.1: Res. Ch. 9.3: Design 7.1). Refers to R. H. Craig, C. A. Emerson, Jr., G. W. Ensign, W. C. Hoad, H. E. Moses, R. O'Donnell, F. H. Snow, W. L. Stevenson.

TERRELL, DANIEL VOIERS, Assoc. M. AM. Soc. C. E.—Univ. of Kentucky, Lexington, Ky.—(elected Jan. 13, 1919.) (Age 37. Born Bedford, Ky.) (B. C. E., 1910, and C. E., 1021 1914, Univ. of Ky.)—May to Aug. 1910 Chainman, and Aug. 1910 to Aug. 1911 Rodman, Gulf, Colorado & Santa Fe Ry.: Aug. to Dec. 1911 Draftsman, Port Bolivar Iron Ore (9) R. R.: Dec. 1911 to Aug. 1912 Leveler and Asst. Res. Engr., Louisville & Nashville Ry.: Sept. 1912 to date Acting Prof. and Prof., Highway Eng., Acting Dean of Civ. Eng., Prof. of Civ. Eng. and Head of Dept., Univ. of Kentucky: Summers (3½ months each year, total 3 years) on location and construction, Engr. of Tests, in charge of tests for all material used by Kentucky State Highway Dept. (Active practice 14.1 years: Res. Ch. 11: Design 6). Refers to W. J. Carrel, J. S. Dawson, C. B. Dugan, J. F. Grimes, J. T. Madison, F. S. Parrigin, M. E. S. Posey.

TUCKER, HARRY, Assoc. M. AM. Soc. C. E.—State College Station, Raleigh, N. C.—(elected Nov. 9, 1920.) (Age 33. Born Lowesville, Va.) (B. A. and B. S., 1910, and C. E., 1923, 1022 Washington and Lee Univ.)—Sept. 1910 to May 1916 Instructor in Mathematics and Civ. Eng., Sept. 1916 to May 1917 Adjunct Prof. of R. R. Eng., Sept. 1919 to May 1920 (10) Associate Prof. of Highway Eng., and Sept. 1920 to date Prof. of Highway Eng., North Carolina State Coll.: Jan. to Sept. 1912 Draftsman, Roanoke (Va.) Bridge Co.: July to Sept. 1915 with North Carolina Dept. of Agriculture and U. S. Weather Bureau on topographic work in Western North Carolina: Feb. 1916 to April 1919 with U. S. Army, until June 1917 in National Guard, then in full service as Lieut. and Capt.; 1 year in foreign service; most of time on topographic work: June to Oct. 1922 Engr. for Ridgecrest, Raleigh, N. C., on design and supervision of streets, curb and gutter, water and sewer (cost about \$10 000): July to Oct. 1922 also Cons. Engr. for Mordecai Development, designing streets, curb and gutter, water and sewer (cost about \$100 000): Oct. 1922 to March 1923 Engr. for Extensions, The Fairview Co., Raleigh, streets, curb and gutter, sidewalks, water and sewer (cost about \$6 000): May 1923 to date Engr. for Sunset Lake on design and construction of concrete dam (cost about \$10 000): since 1910 also on large amount of general civil engineering work, such as subdivisions, city maps, road surveys, track layouts, earth dams, etc.: since June 1920 (from time to time) also with other engineers in testing of materials and as Consultant in concrete work, both buildings and bridges. (Active practice 12.9 years: Prof. work 12.9: Res. Ch. 6: Design 1.4). Refers to W. S. Fallis, C. M. Lambe, C. L. Mann, J. H. Pratt, C. E. Waddell, G. C. White.

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WARDWELL, RALPH WATTS, Assoc. M. AM. Soc. C. E.—Home Life Bldg., Washington, D. C.—(elected May 6, 1914.) (Age 44. Born San Francisco, Cal.)—3 years student, 1023 Coll. of Civ. Eng., Univ. of California: July 1904 to Jan. 1906 Rodman, Transitman and Chf. of field party on Truckee-Carson Project, Nevada, and June 1906 to Jan. 1908 Asst. (5) Engr., Klamath Project, in charge of construction for U. S. Reclamation Service: Jan. to June 1908 Instrumentman and Inspector, Southern Pacific R. R., on construction: June 1908 to April 1909 with Viele, Blackwell & Buck, 6 months as Asst. Engr. in charge of construction of timber dam on North Fork of Feather River at Big Bend, Cal.; designed dam to meet local conditions developed during construction; then on investigation of power possibilities on north slope of Pikes Peak, in charge of the office: April 1909 to March 1914 Engr. and Asst. Supt., Colorado Springs (Colo.) Light, Heat & Power Co., in charge of public service steam heating system; designed and built high-pressure steam line to supply Antlers Hotel, and a 150-kw. hydro-electric plant; designed pipe connections for 1 500-k.v.a. turbo-generator and steel floor system for main power house; made numerous changes and extensions in low-pressure heating system and gas distributing system: March 1914 to May 1917 Engr., Fuel Oil Dept., Atchison, Topeka & Santa Fe Ry., Fellows, Cal., in charge of water-supply system, wells and distribution; organized and in charge of Geological Dept. directing development work; located and supervised construction of roads, pipe-lines, tanks, buildings, etc., including fire-protection system for main camp: May to Oct. 1917 Engr., Western Water Co., Taft, Cal., designed and built electric-driven booster pump station on 12-in. main supply line: Oct. 1917 to Oct. 1918 Gen. Mgr., same company, designed and built temporary steam pumping plant; enlarged main pumping plant and supervised the repairs; designed and installed new distributing headers and additional pumping equipment at main distributing station: Oct. 1918 to Oct. 1919 Capt., Engrs., U. S. Army, with Coast Artillery on special duty; in charge of field party making topographical map of area between Cape Henry Lynnhaven Bay, Va.: Nov. 1919 to Feb. 1923 Valuation Engr., Oil and Gas Valuation Sec., Income Tax Unit, Bureau of Internal Revenue, Treasury Dept., Washington, D. C.; after Aug. 1921 Chf. of California and Foreign Sub-Section; developed methods for estimating underground reserves in, and methods of valuing, oil and gas properties; determined values of numerous oil and gas properties (several with values ranging from \$20 000 000 to \$120 000 000 each): Feb. 1923 to date Cons. Engr., especially on valuation work for income tax and commercial purposes. (**Active practice 18.1 years: Sub-Prof. work 0.9: Prof. work 17.2: Res. Ch. 8.2: Design 4.7.**) Refers to F. K. Baxter, L. J. Bevan, J. L. Darnell, R. B. Moran, D. W. Murphy, T. H. Olds, P. Paine.

WILCOX, ALBERT LOUIS, Assoc. M. AM. Soc. C. E.—Casilla 162, Trujillo, Peru—(elected May 31, 1916.) (Age 42. Born Rockdale, Tex.) (B. S. in C. E., N. Y. Univ., 1903.)—1024 June to Sept. 1900 Chairman and Rodman, Velardeña (Mexico) Min. & Smelting Co.: June to Sept. 1902 Stream Gauger, U. S. Section of International Boundary Comm., at (1) El Paso, Tex.: July to Dec. 1903 Levelman and Transitman, Mexican Central Ry.: April 1904 to May 1905 Transitman and Asst. Div. Engr. on railroad construction between Barroteran and Muquez, Coahuila, Mexico, and Locating Engr. on 200-km. survey between Barroteran and Paredon, Mexico: May to Aug. 1905 Timekeeper and Materialman on construction of 1 000-ton concentrating mill for Detroit Copper Co., Morenci, Ariz.: Aug. to Dec. 1905 Transitman on transmission line survey (200 miles) between Clifton, Ariz., and Callup, N. Mex.: Dec. 1905 to Jan. 1910 with Pacific Gas & Elec. Co. of San Francisco, Cal., as follows: Jan. to May 1906 on construction of Deer Creek Power House, Nevada County, Cal.; May 1906 to Jan. 1907 Chf. of Party on surveys for hydro-electric developments; Jan. to April 1907 office work on design of ditches, flumes, etc.; April 1907 to Aug. 1908 Supt. in charge of construction at Deer Creek Plant (5 000 kw.); Aug. 1908 to Feb. 1909 in charge of construction of substations in San Francisco, and office work on design of dams, ditches, flumes, pipes, etc.; 1909 Supt. in charge of hydraulic construction, including masonry dam on Bear River at Colfax, Cal., earthen dams at Clipper Gap, Lake Valley, Clover Valley, in Placer County, Cal., and reconstruction of ditches, etc.: Jan. 1910 to Feb. 1911 Engr., San Francisco Fireproofing Co. on design of concrete floor slabs, and Contr. on construction of fireproof floors and partitions: Feb. to Oct. 1911 with L. A. Norris Co., Portland, Ore., selling fireproofing materials and on concrete and fireproofing designs: Oct. 1911 to Sept. 1912 Supt. in charge of design and construction of masonry dam and 600-kw. electric plant and erection of 8½-ft. gold dredge for Pato Mines Co. at Zaragona, Colombia: Oct. 1912 to May 1915 Supt. and Engr. in complete charge of installation and of field design

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of 11 250-kw. hydro-electric plant for Cerro de Pasco Min. Co., La Oroya, Peru, including two storage reservoirs with earthen dams, concrete diversion dam, 5 miles of concrete-lined canal and 5½ miles of unlined canal, 125 miles transmission line, generating station and substations: May to Oct. 1915 on design and erection of ore bins at Oroya, and Operating Supt. of this hydro-electric system: Oct. 1915 to Jan. 1917 Supt. in charge of operation and maintenance of Cerro de Pasco Ry., 200-km. of lines, and construction, Pachachaca hydro-electric plant (3 750 kw.): March 1917 to June 1918 Supt. in charge of construction and field design of 4 000-kw. hydro-electric plant for Homestake Min. Co., Spearfish Canyon, S. Dak., including power house, transmission line, 5 miles 40-in. wood stave pipe, 1 mile of tunnel, two concrete dams, etc.: June 1918 to Feb. 1919 with F. G. Baum on investigation of water power in Chile: Feb. to Oct. 1919 on investigation of water power for Chile Exploration Co. of Chuquicamata, Chile: Nov. 1919 to Dec. 1921 with Guggenheim Bros. in Bolivia, as Asst. Gen. Mgr. of Bolivia office, after March 1920 on mining operations and in charge of design and construction of two hydro-electric plants (400 kw.), dams, pressure pipes, etc., also houses, warehouses, etc., and 70-mile highway for motor traffic over Andes Mts., reaching elevation of 15 993 ft.: Jan. 1922 to date Cons. Engr., Northern Peru Min. & Smelting Co. at Trujillo, Peru, in complete charge of design and construction of two hydro-electric power plants, substations, transmission lines, etc., also in charge of all other construction work for the company, including erection of concentrating mill, aerial tramway (11 km. long), roads, houses, warehouses, ore-handling systems, etc. (Active practice 19 years: Res. Ch. 16: Design 10.9). Refers to F. G. Baum, G. A. Elliott, L. R. Jorgenson, H. C. Vensano, S. B. Williamson.

WILKINSON, EPHRAIM BAILEY, ASSOC. M. AM. SOC. C. E.—177 Second Ave., North, Nashville, Tenn.—(elected April 19, 1920.) (Age 31. Born Elkton, Ky.) (B. S. in 1025C. E., Univ. of Colo., 1914.)—1910 to 1911 (1 year) Rodman and Instrumentman, Peachtree Heights Park Development, Atlanta, Ga.: 1912 (about 4 months), Rodman, (10) Denver & Salt Lake Ry.: 1914 (about 4 months) Topographic Aid, U. S. Geological Survey: 1914 to 1917 (3 years) Rodman, Instrumentman, Inspector and Asst. Engr. on maintenance and construction, Atchison, Topeka & Santa Fe Ry. Co.: 1917 to 1919 (2 years) 2d Lieut. and 1st Lieut., Corps of Engrs., 35th Regt., U. S. Army; Night Supt. on shop building, railway cars, LaRochelle, France: 1919 to 1920 (1 year) City Engr., Arkansas City, Kans.: 1920 to 1921 (6 months) Gen. Mgr., Flint Gravel Co., Arkansas City: 1921 in private practice at Newcastle, Wyo., on design of sewer system and water-works extension, Newcastle; design and supervision of construction of oil pipe (7 miles), three pumping plants, Omaha Refining Co.: 1921 to date (2½ years) Contr. Engr., Wilson Weesner & Co., estimating and preparing original and alternate designs on reinforced concrete work in Nashville and vicinity amounting to several hundred thousand dollars. (Active practice 11.6 years: Sub-Prof. work 2.6: Prof. work 9: Res. Ch. 8.2: Design 3.5). Refers to F. E. Freeland, M. S. Ketchum, B. H. Klyce, J. B. Mullins, C. H. Olmstead, W. Piez, C. B. Wilson.

FROM THE GRADE OF AFFILIATE

WALKER, CHARLES LEOPOLD, AFFILIATE, AM. SOC. C. E.—201 Fairmount Ave., Ithaca, N. Y.—(elected Junior April 6, 1909; Affiliate Feb. 28, 1911.) (Age 44. Born North 1026 Evans, N. Y.) (C. E., Cornell Univ., 1904.)—July 1904 to Sept. 1905 Recorder, U. S. Lake Survey: Sept. 1905 to June 1908 Instructor in Civ. Eng., Sept. 1908 to (3) June 1922 Asst. Prof. of Applied Mechanics (1908 to 1915) and of San. Eng. (1915 to 1922), and Sept. 1922 to June 1923 Prof. of San. Eng., Cornell Univ.: June to Sept. 1906 Draftsman, Michigan Central R. R. Tunnel, Detroit: June to Oct. 1907 Special San. Engr., New York State Board of Health, on sewage plant inspection: June to July of years 1908-1911, June to Sept. 1912, June to July of years 1915, 1917 and 1918, Aug. to Sept. 1919 and June to July 1923 when in camp, except in 1923, in charge of work in triangulation; in 1923 work was varied covering levels, hydrography and triangulation: Asst. San. Engr., with R. W. Pratt, Cleveland, on sewage disposal, Toledo (June to Dec. 1913), on filter design, Lima, Ohio (June 1916 to Jan. 1917), and on Emergency Fleet housing work for Alliance and Lorain, Ohio, and Wyandotte, Mich. (July to Oct. 1918), with Lucas County, Ohio, on garbage and water (Dec. 1913 to Feb. 1914) and on sewer construction (July to Sept. 1914), Toledo, and with Morris Knowles on Camp Meade construction (July to Oct. 1917): June to Oct. of years 1920

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and 1921 and June to Aug. 1922, and part of time from Feb. to June 1920; Oct. 1920 to June 1921 and Oct. 1921 to June 1922 San. Engr., New York Milk Conference Board through New York State Coll. of Agriculture, in charge of studies on disposal of dairy wastes; has been called in by and has advised owners of milk plants in various towns in New York State relative to disposal of dairy wastes. (Active practice 17.7 years: Sub-Prof. work 1.4: Prof. work 16.3: Res. Ch. 13.6: Design 1.5). Refers to F. A. Barnes, E. E. Haskell, O. M. Leland, R. F. MacDowell, H. N. Ogden, F. C. Shenehon.

FROM THE GRADE OF JUNIOR

COTTER, CARL HENRY, JUN. AM. SOC. C. E.—Dept. Engr., Gonavares, Haiti—(elected Nov. 28, 1916.) (Age 31. Born Bay City, Mich.) (B. C. E., Univ. of Mich., 1916.)—June 10271916 to Aug. 1917 Structural Steel Draftsman, Mt. Vernon (Ohio) Bridge Co., making details for fabricating shop from layouts: Aug. 1917 to Jan. 1918 Supt. of Constr., (1) Flint, Mich., in charge of snow removal, street cleaning, and at different times in charge of construction of sewers and pavements: Jan. 1918 to date with Civ. Eng. Corps, U. S. Navy as follows: Jan. to Feb. 1918 Lieut., j. g. under instruction; Feb. 1918 to Jan. 1920 at Washington (D. C.) Navy Yard, July 1918 became Lieut., in responsible charge of contract work (\$3 000 000), consisting of reinforced concrete warehouse, pattern and machine shops, addition to forge shop, seamen gunners' quarters, underground fuel oil storage tank and reinforced concrete pipe tunnel, concrete landing beach for seaplanes, concrete road, wharf and quay wall construction, etc.; since Jan. 1920 under Commander A. L. Parsons, Engr. in Chf. to Haitian Govt., as Dept. Engr. in charge of all public works in departments of Artibonite and Northwest, covering construction and repair of roads, streets, bridges, buildings and wharves, control of rivers, operation and maintenance of water distribution systems, and of eight telegraph stations with 330 km. of line, also management of public works for towns in the departments. (Active practice 7.3 years: Res. Ch. 6). Refers to C. L. B. Anderson, R. E. Bakenhus, E. R. Gayler, J. F. Kunesh, A. A. L. Ort, A. L. Parsons, A. H. Weber.

JACOT, HARRY LOUIS, JR., JUN. AM. SOC. C. E.—P. O. Box 53, Hobart, N. Y.—(elected June 19, 1922.) (Age 29. Born St. George, N. Y.)—April to Nov. 1915 Axeman, 1028Topographical Dept., New York City, running transit, level, etc.: Dec. 1915 to May 1916 Rodman, New York Central R. R.: April 1916 to April 1918 Rodman and Instru- (3) mentman, Interstate Commerce Comm., valuation work, chaining, estimating earth work, etc.: March to April 1920 Transitman, Raymond Concrete Pile Co., New York, platting, drafting, estimating, etc.: June to July 1920 Tracer and Draftsman, Standard Shipbuilding Corporation: July 1920 to June 1921 Civ. Engr., Terry & Tench Co., Inc., New York, in full charge of Progress Dept., making up estimates of costs of material, drafting, office work, etc.: July 1921 to Feb. 1922 Rodman, Dept. of Docks, New York City, on location surveys, running transit, measuring and inspecting earth for filling: April to May 1920 Transitman, Dept. of Water, Gas and Electricity, New York City, valuation, location, etc.: June 1922 to date Jun. Asst. Civ. Engr., New York State Highway Dept., Binghamton, N. Y., on location, design and construction; at present Asst. to Engr. in charge of construction, and part of time in charge made up weekly reports, looked over work, etc., and in office worked up designing of roads. (Active practice 6.1 years: Res. Ch. 1: Design 1). Refers to J. E. Beswick, C. T. Fisher, H. L. Preston, H. E. Smith, R. W. Wood.

TODD, CARLOS NICOLAS, JUN. AM. SOC. C. E.—O'Reilly No. 7, Havana, Cuba—(elected April 7, 1915.) (Age 31. Born Havana, Cuba.) (C. E., Columbia Univ., 1913; C. E., 1029National Univ. of Havana, Cuba, 1914.)—Oct. 1913 to April 1914 Apprentice course, Baldwin Locomotive Works, Philadelphia, Pa.: April 1914 to Sept. 1916 Asst. to Engr. (1) of Constr., Havana Terminal R. R. Co., and United Rys. of Havana, field and office work on yards, terminal, warehouses, piers, docks, Key West-Havana Car Ferry, inspection, design, reports, contracts, construction and maintenance: Sept. 1916 to Nov. 1918 member of firm, Todd & Johnson, Contr. Engrs., structural steel design and erection, design of wharves, buildings (steel and concrete), warehouse, reinforced concrete tank construction, aqueducts and house building: Nov. 1918 to May 1920 Engr. of Havana office, and May 1920 to date Mgr. for Cuba, Kelvin Eng. Co., Inc. (which owns and operates Nazareth, Pa., Foundry & Machine Co., manufacturing sugar house apparatus, and does general engineering and machinery work for sugar mills in Cuba, especially in electric power, specifications, design, contracts for complete sugar mills; is also Repre-

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sentative for Cuba of De Laval Steam Turbine Co. of Trenton, N. J., Kalman Steel Co., Aldrich Pump Co., Allentown, Pa., Pott Cassels & Williamson, makers of sugar machinery at Glasgow, Scotland) : since Oct. 1922 also Secy., Cardenas Eng. Works, S. A., at Cardenas, Cuba, doing general repair work on sugar mill machinery and construction of steel buildings, boilers, sugar mill tank work. (Active practice 10.1 years: Sub-Prof. work 0.6: Prof. work 8.5: Res. Ch. 7: Design 8). Refers to F. M. Aguirre, A. Castillo y Grau, E. J. Chibas, C. Lobo, R. V. Sorondo, R. S. Webster.

WRIGHT, CHILTON AUSTIN, JUN. AM. SOC. C. E.—10 Woodbine Ave., New Rochelle, N. Y.—(elected April 3, 1922.) (Age 25. Born Washington, D. C.) (C. E., 1919, and 1030M. C. E., 1920, Cornell Univ.)—July to Sept. 1917 Rodman on sewer surveys, Camp Dix, N. J.: May to Sept. 1918 Rodman and Transitman, at Camp Eustis, Va.: March

- (1) 1919 to Feb. 1920 graduate work at Cornell Univ.: March 1920 to Oct. 1921 Asst. Engr., New York Water Power Investigation Comm., operating planetable in topographic surveying of dam sites; 3 months Asst. in preparing rainfall map of New York State: Oct. 1921 to Aug. 1922 Asst. Engr., New York Water Power Investigation, on preliminary design of hydro-electric plants, study of stream flow, regulation and operation of plants: Sept. to Nov. 1922 Asst. Engr., Emergency, New York City Board of Water Supply, on construction, office work, computations, analyzing cost data, progress reports of steel pipe siphons: Jan. 1923 to date with Sanderson & Porter, New York City, until May 1923 as Chf. of Party on topographical survey of hydro-electric development, responsible for execution of work; since then Hydr. Draftsman, Asst. in hydro-electric design, studies, reports and estimates. (Active practice 4.5 years: Sub-Prof. work 2.8: Prof. work 1.7: Res. Ch. 1.7). Refers to F. A. Barnes, H. A. Foster, J. P. Hogan, E. W. Maloney, F. Mason, F. W. Scheidenhelm, E. W. Schoder, C. E. Sudler.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.

JOHN H. DUNLAP,
Secretary.